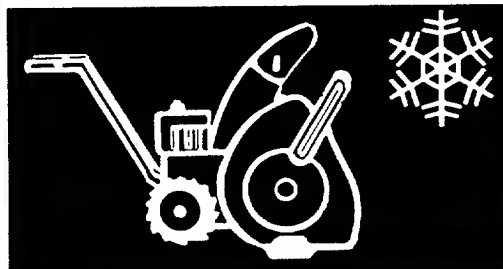
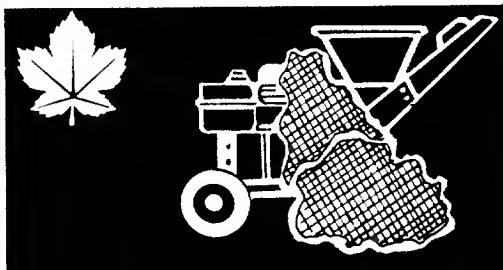
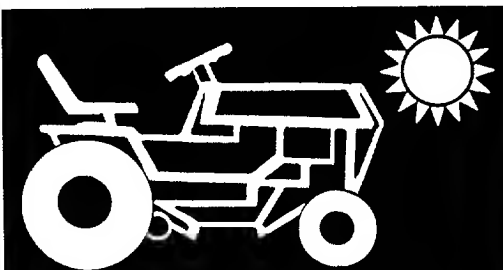
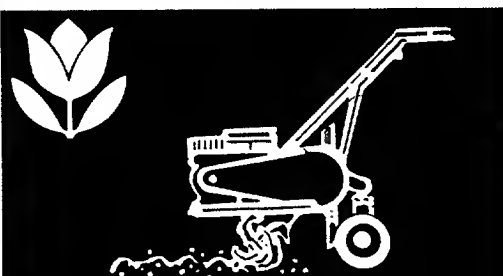


# OWNER'S GUIDE

OUTDOOR POWER EQUIPMENT  
for all seasons



## TRANSMATIC FRONT ENGINE LAWN TRACTORS

### Model Numbers

138-320-000	138-340-000
138-322-000	138-342-000
138-327-000	138-347-000
138-330-000	138-350-000
138-332-000	138-352-000
138-337-000	138-357-000

### IMPORTANT:

Read Safety Rules and  
Instructions Carefully

Thank you for purchasing  
an American-built product.

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*Dear Customer,*

*So often throughout the year we are all in a rush to meet our daily obligations.*

*However, we at MTD Products Inc are taking a quick moment out to say...*

**"Thank you for your business."**

*Sincerely,*

**MTD PRODUCTS INC**



**INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.**

## LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

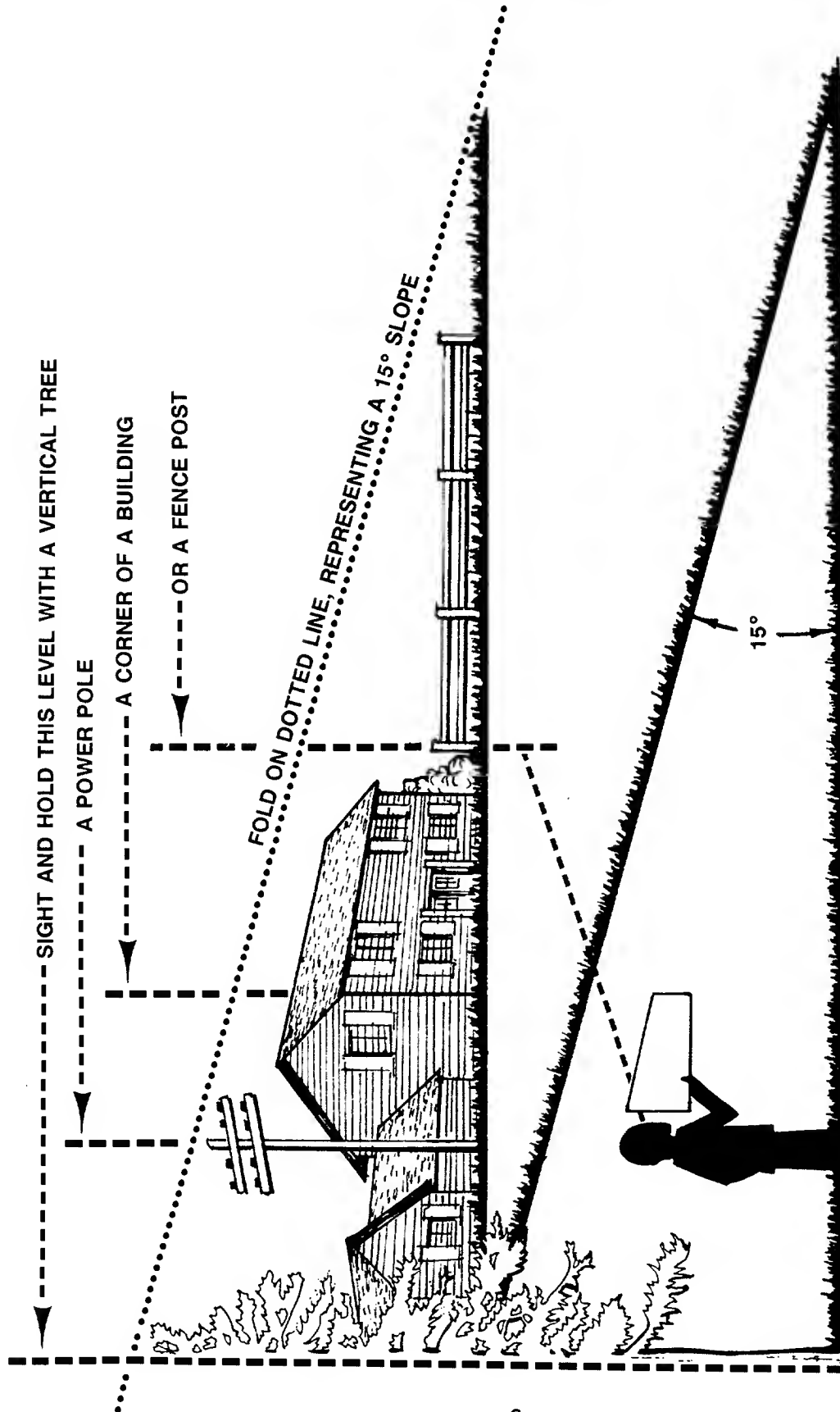
**WARNING:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service center.

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.

# SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)



Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

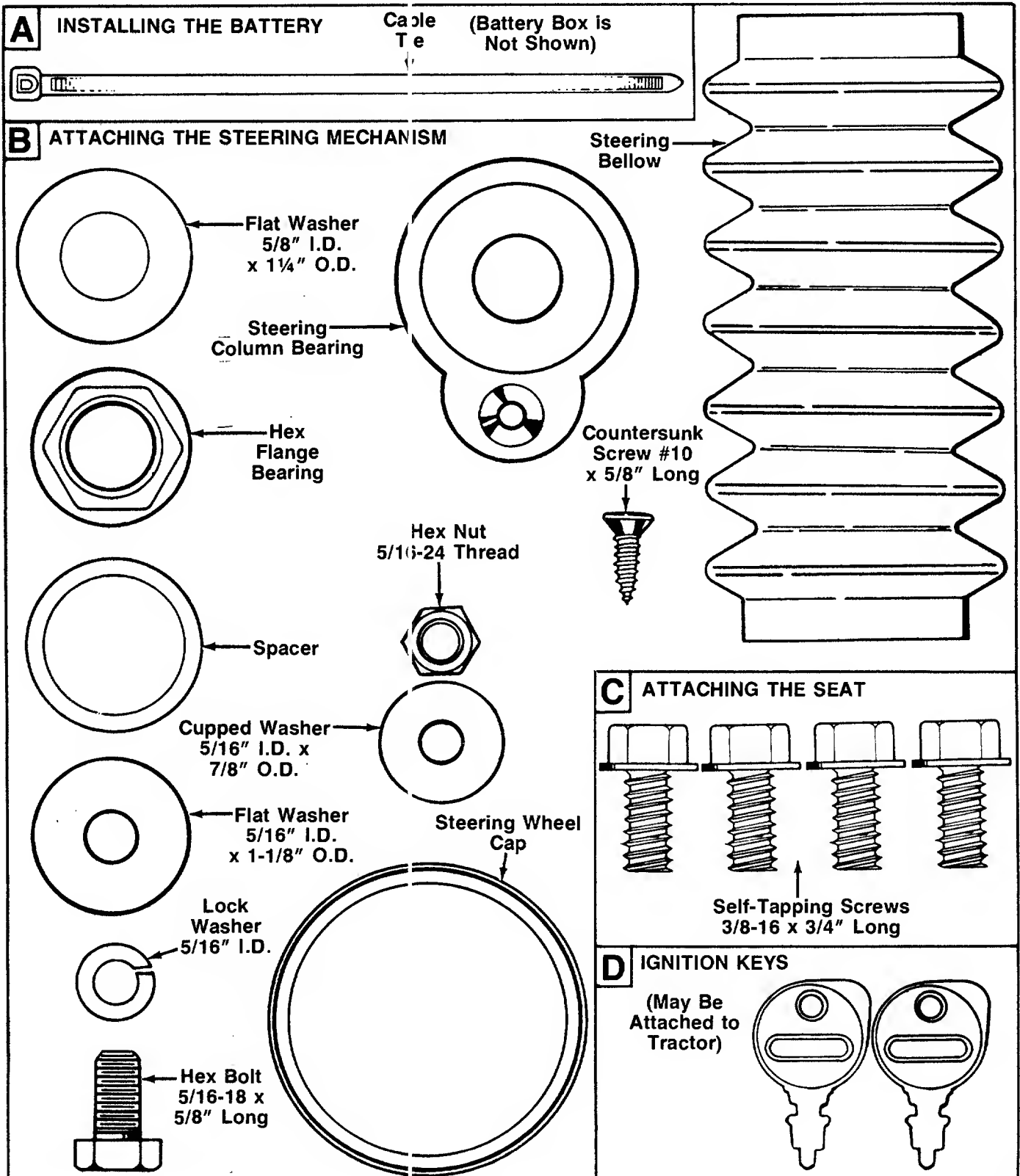
Operate RIDING mowers up and down slopes, never across the face of slopes.

Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

# CONTENTS OF HARDWARE PACK

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use.

(Hardware pack may contain extra items which are not used on your unit.)




Cut Along this Line



# IMPORTANT

## RULES FOR SAFE OPERATION



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR UNIT. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**




### DANGER


Your unit was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

1. READ THIS OWNER'S MANUAL carefully in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop the machine quickly.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
6. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
7. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
8. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
9. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury to you or a bystander.
10. Stop the blade(s) when crossing gravel drives, walks or roads.
11. Disengage all attachment clutches and shift into neutral before attempting to start engine.
12. Disengage power to attachment(s) and stop engine before leaving operating position.
13. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
14. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
15. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
16. Disengage power to attachment(s) when transporting or not in use.
17. Take all possible precautions when leaving vehicle unattended such as disengaging power take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
18. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.
19. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face. Use extreme caution if it is necessary to drive the tractor up an incline or back the tractor down an incline because the front of the tractor could lift and rapidly flip over backward which could cause serious injury.
20. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
21. Stay alert for holes in terrain and other hidden hazards which may cause the unit to tip over.
22. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
23. Watch out for traffic when crossing or near roadways.
24. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
25. Handle gasoline with care. It is highly flammable.
  - A. Use approved gasoline container.
  - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
  - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.

## Rules for Safe Operation (continued)

26. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in operator's manual.
27. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
28. Never store the machine with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
29. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
30. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
31. Do not change the engine governor settings or overspeed the engine.
32. When using the vehicle with mower, proceed as follows:
  - (1) Mow only in daylight or in good artificial light.
  - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
  - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
  - (4) Check blade mounting bolts for proper tightness at frequent intervals.
33. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
34. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up. Disengage blades before shifting into reverse and backing up.
35. This unit should not be driven up a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually to load properly.

 **IMPORTANT:** This unit is shipped **WITHOUT GASOLINE or OIL**; however, a small amount of oil may be present from the factory. Do not overfill. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

 **NOTE:** Reference to right or left hand side of the unit is observed from the driver's seat, facing forward.

## ASSEMBLY

### UNPACKING

1. Remove the lawn tractor from the carton as follows. Open the top flaps. Remove all loose parts and carton inserts. Cut the front corners of the carton. Make certain brake is released, and push the unit out of the carton.
2. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

### BATTERY INFORMATION



#### WARNING

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.\*
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.
- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.  
**\*Always shield eyes, protect skin and clothing when working near batteries.**

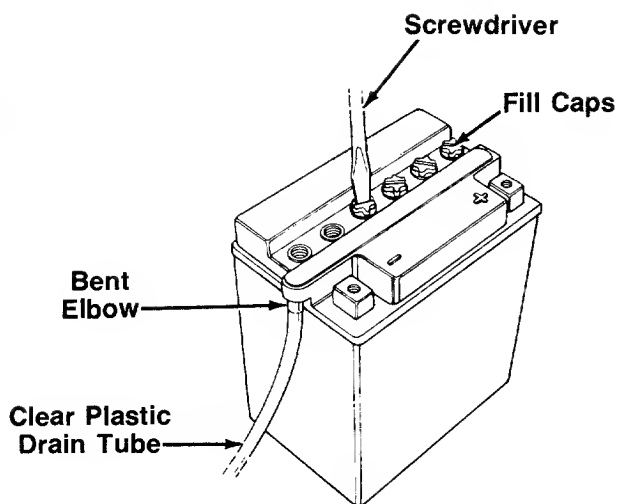


FIGURE 1.

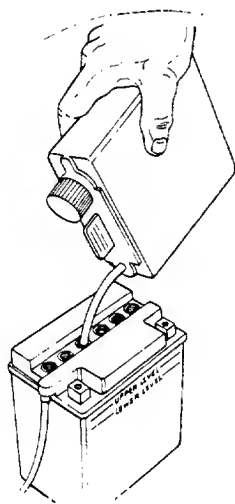


FIGURE 2.



**Battery contains sulfuric acid. Refer to warning on page 6.** Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. EYES: Flush with cool water for at least 15 minutes, then get prompt medical attention.

**Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away.** Be sure to charge battery only in well-ventilated areas. Make certain venting path of battery (drain tube) is always open.

**KEEP BATTERIES  
OUT OF THE REACH OF CHILDREN!**

## ACTIVATING THE BATTERY

**Do not activate battery (fill with battery acid) until battery is actually placed in service. Be certain to read previous warnings before activating the battery.**

1. Open the battery pack. Be careful not to puncture the box. It contains the battery with a long plastic tube attached, battery fluid (acid) in a plastic container, one short plastic tube and one hardware pack (two hex bolts and nuts).
2. Place the battery on a table or workbench. Make certain the long plastic drain tube is in place on the vent elbow.
3. Remove the six fill caps from the top of the battery with a screwdriver. Be careful not to damage the fill caps. See figure 1.
4. Place the battery fluid container on the table or workbench. Carefully cut off tip of the spout and attach the short plastic tube provided. Do not squeeze the container when cutting tip.

5. Fill each battery cell slowly and carefully to the **UPPER LEVEL** line marked on battery. See figure 2. Use caution as the acid level will rise rapidly after the bottom of the cell is filled.
6. Allow battery to stand for 30 minutes with the fill caps removed, while the plates absorb acid.
7. If acid level has fallen after the 30 minute standing period, refill each cell with battery acid to the **UPPER LEVEL** line on battery. Replace the fill caps.
8. Before discarding the empty container, neutralize any residue with baking soda and rinse container with water. Puncture container several times before discarding.
9. Charge the battery after the 30 minute standing period. **SLOW CHARGE THE BATTERY (DO NOT FAST CHARGE)** at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

## NOTE

Charging rate after battery has been put into operation: The battery is to be charged for a period of 14-16 hours. **NO LONGER THAN 30 HOURS.**

**After battery has been charged, add only distilled water. Do not add acid.**

## NOTE

This engine is equipped with an alternator. The current for the battery charger alternator is unregulated. During normal operation, it is only necessary to charge the battery:

1. When it is activated for the first time.
2. Before winter storage.
3. Before using the lawn tractor after winter storage.

### INSTALLING THE BATTERY (Hardware A)

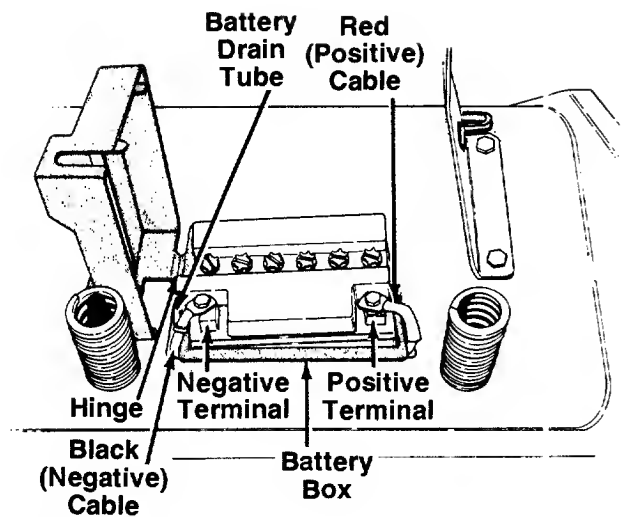


FIGURE 3.

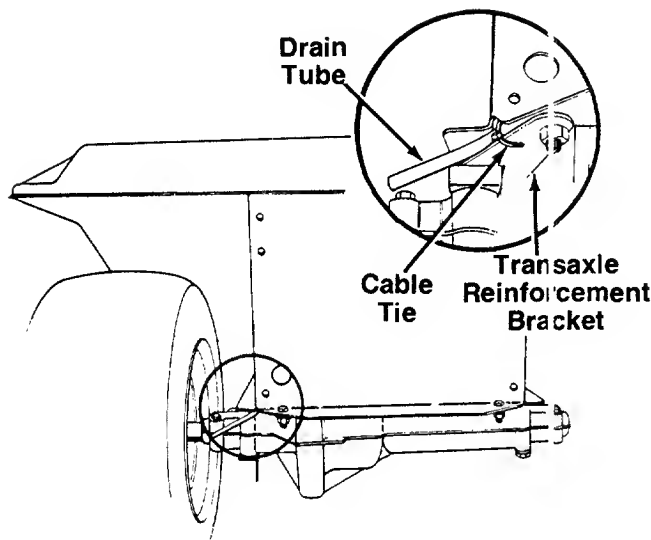


FIGURE 4.

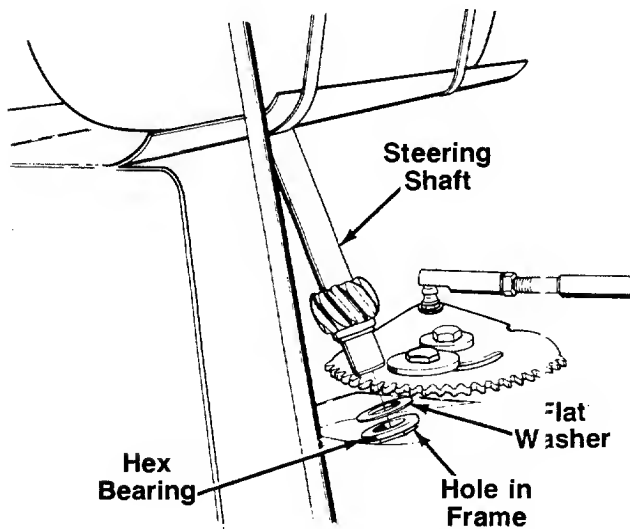


FIGURE 5.

1. Raise the seat bracket (on top of the fenders). Push any electrical wires out of the way so they are not disconnected when installing the battery box. Place the plastic battery box into the opening beneath the seat bracket. The hinge on the battery box goes toward the left side of the unit. Snap the battery box in place so the retaining edges on the box are beneath the fender. Make certain the battery cables are routed up along each side of the box. See figure 3.
2. Place the battery inside the battery box so that the positive terminal is toward the right side of the unit. See figure 3. Route the battery drain tube down beside the battery box.
3. Slide the hex nut (provided with battery hardware) into the positive (+) terminal. Place the positive (heavy red wire) cable on the positive terminal. Secure with bolt provided. See figure 3. Slide the rubber boot over the positive terminal.
4. Slide the hex nut (provided with battery hardware) into the negative (-) terminal. Place the negative (heavy black wire) cable on the negative terminal. Secure with bolt provided.
5. Route the drain tube through the opening between the transaxle reinforcement bracket and the frame on the left rear of the unit. Secure the drain tube to the transaxle reinforcement bracket, using the cable tie as shown in figure 4. Be certain drain tube is routed away from the wheel rim. Trim excess end of cable tie.
6. Close the top of the battery box.

### INSTALLING THE STEERING MECHANISM (Hardware B)

1. Open the hood of the lawn tractor by lifting up on both sides of the hood. Position the front wheels of the tractor so they are pointing straight forward.
2. Insert the hex bearing into the hole in the frame shown in figure 5.
3. Insert the end of the steering shaft which has the pinion gear attached through the hole in the dash panel. Place 5/8" I.D. flat washer on the end of the steering shaft, and insert shaft through hex bearing. Make certain the pinion gear is fully seated against the flat washer and hex bearing.



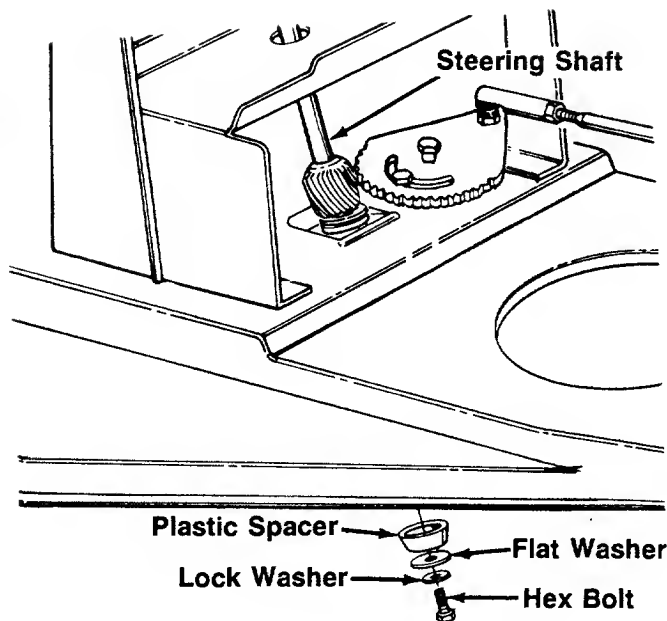


FIGURE 6.

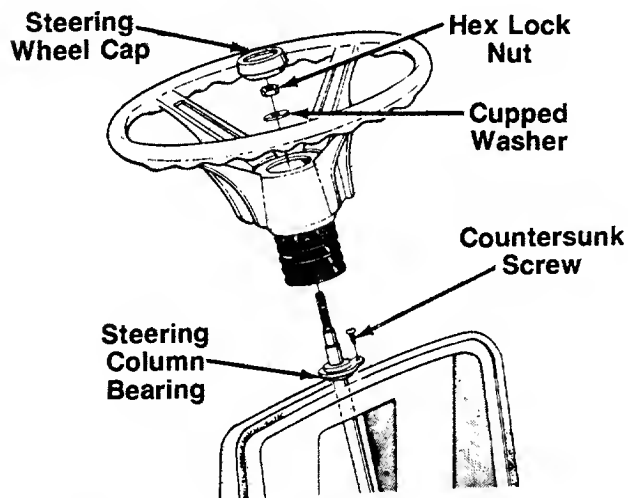


FIGURE 7.

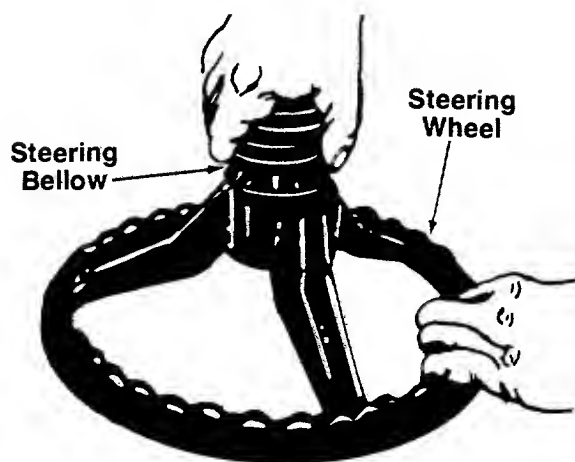


FIGURE 8.

4. Secure bottom of the steering shaft as follows. See figure 6.

- a. Lower the deck by moving the lift and disengagement lever (located on the right fender) all the way down.
- b. Place the plastic spacer over the end of the steering shaft. Secure with 5/16" I.D. flat washer, lock washer and hex bolt. A 1/2" wrench is required (socket wrench with an extension would be helpful).

5. Place the steering column bearing (solid side up) over the upper end of the steering shaft. Seat the steering column bearing into the hole in the dash panel. Secure with countersunk screw. See figure 7.

6. Attach one end of steering bellow to the steering wheel as shown in figure 8.

7. With the wheels of the tractor pointing straight forward, place the steering wheel and steering bellow over the steering shaft, positioning steering wheel as desired.

8. Place the washer with the cupped side down over the steering shaft. Secure with 5/16" hex lock nut. See figure 7.

9. Place the steering wheel cap over the center of the steering wheel and seat it with your hand.

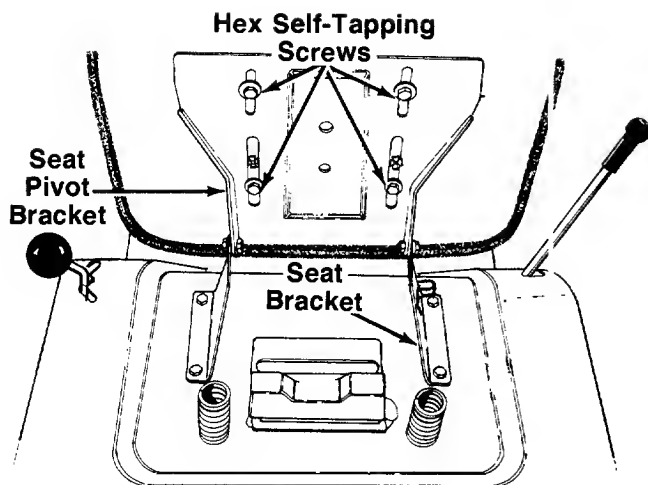


FIGURE 9.

#### ATTACHING THE SEAT (Hardware C)

Place the seat in position against the seat pivot bracket, lining up the slotted holes in the pivot bracket with the holes in the seat. Select desired position for the seat, and secure with hex self-tapping screws. See figure 9.

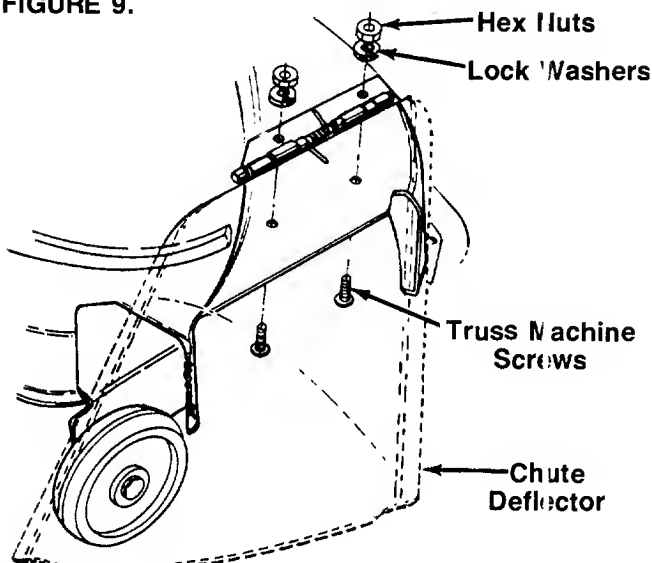


FIGURE 10.

#### ATTACHING THE CHUTE DEFLECTOR (If Unassembled)

If the chute deflector has not been assembled on your unit, remove the truss machine screws, lock washers and hex jam nuts which are attached to the deck next to the chute opening.

Place the chute deflector in position as shown in figure 10. Secure with hardware just removed.



#### WARNING

Do not operate your unit unless the chute deflector has been properly installed.

## CONTROLS

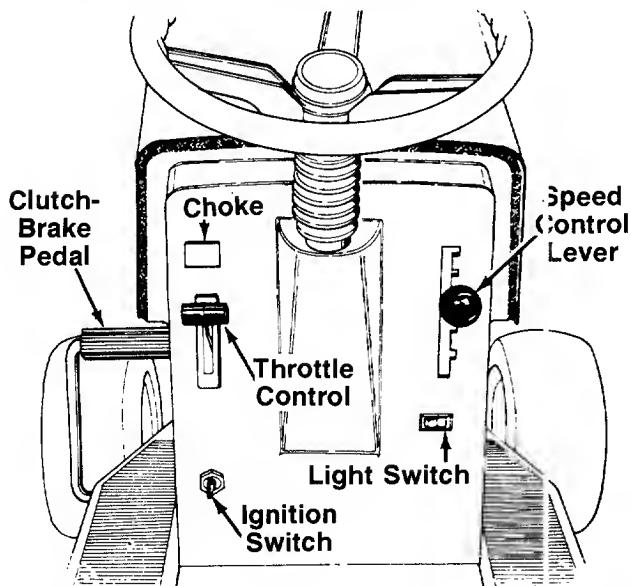


FIGURE 11.

#### THROTTLE CONTROL

The throttle control is used to regulate the engine speed. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. See figure 11.

#### CHOKE CONTROL

The choke control is located on the dashboard and is operated manually. Details for the choke operation are covered in the separate engine manual packed with your unit. See figure 11.

#### SPEED CONTROL LEVER

The speed control lever allows you to regulate the ground speed of the lawn tractor. See figure 11. To select the ground speed, depress clutch pedal. Push speed control lever inward and move downward to slow lawn tractor, move upward to increase speed. When desired speed has been obtained, release lever in that position. Whenever clutch is engaged, unit will automatically go to the pre-set speed.

## IGNITION SWITCH

Turn the key to the START position to start the engine. When the engine is running, let the key return to the ON position. To stop the engine, turn the key to the left to the OFF position and remove it to prevent accidental starting. See figure 11.

## LIGHT SWITCH

Push the light switch to turn on the lights. The lights will only operate when the engine is running. See figure 11.

## SHIFT LEVER

The shift lever is located on the left fender and has three positions, FORWARD, NEUTRAL and REVERSE. See figure 12. The clutch-brake pedal must be depressed and the lawn tractor must not be moving when shifting gears. Do not force the shift lever. Release the clutch-brake pedal slightly to line up the shifting collar in the transmission. Then try to shift gears.

## CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the left side of the lawn tractor. Depressing the clutch-brake pedal part way disengages the clutch. Pressing the pedal all the way down disengages the clutch and engages the disc brake. See figure 11.



### NOTE

The clutch-brake pedal must be depressed to start the engine.

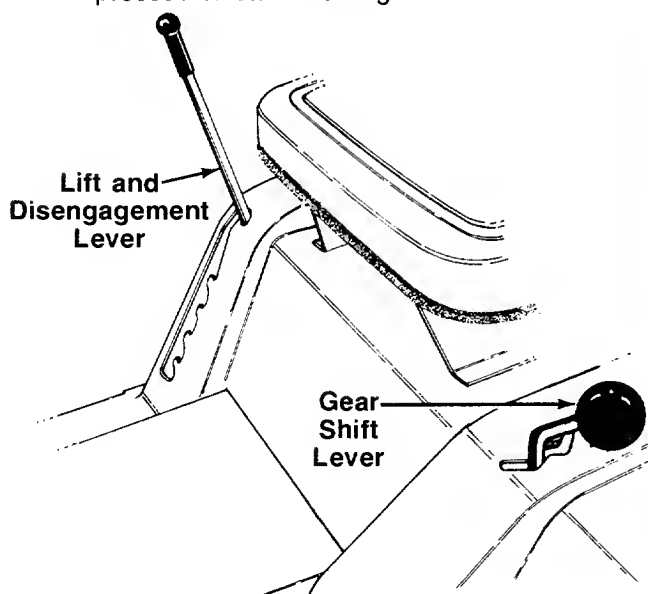


FIGURE 12.

## PARKING BRAKE

The speed control lever is used to set the parking brake. To set the parking brake, depress the clutch-brake pedal. Press the speed control lever inward and all the way down. Release the speed control lever and the clutch-brake pedal.

To release the parking brake, depress the clutch-brake pedal, press the speed control lever inward and move to desired position. Release the speed control lever and the clutch-brake pedal.

## INTERLOCKS (Not Shown)

Interlock safety switches are located on the clutch-brake pedal, the lift and disengagement lever, the gear shift lever and under the seat.

Before the engine will start, the clutch-brake pedal must be depressed all the way and the lift and disengagement lever must be in the disengaged position.

Before the unit can be shifted into reverse or if the operator leaves the seat, the lift and disengagement lever must be in the disengaged position.

## CUTTING CONTROLS

### A. LIFT AND DISENGAGEMENT LEVER

The lift and disengagement lever is used to raise and lower the cutting deck which determines the cutting height. Pulling it all the way back and locking it disengages the blades. The lift and disengagement lever **must** be in the disengaged position when starting the engine, when shifting into reverse or if the operator leaves the seat. See figure 12.

### B. DECK WHEEL HEIGHT ADJUSTMENT

Set the deck wheels so that the wheels are 1/4 to 1/2 inch above the ground, by moving the deck wheels to the desired hole location in the deck.

## OPERATION

### CAUTION

- READ OPERATOR'S MANUAL(S) • NEVER CARRY CHILDREN
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS
- KEEP SAFETY DEVICES (GUARDS, SHIELDS AND SWITCHES) IN PLACE AND WORKING
- REMOVE OBJECTS THAT COULD BE THROWN BY BLADE(S)
- DO NOT OPERATE THE UNIT WHEN CHILDREN AND OTHERS ARE AROUND
- ALWAYS LOOK BEHIND THE UNIT BEFORE BACKING UP
- DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP
- IF THE UNIT STOPS GOING UPHILL, STOP BLADE(S) AND BACK SLOWLY DOWNHILL
- BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLACING HANDS OR FEET NEAR BLADE(S)
- BEFORE LEAVING OPERATOR'S POSITION, SHUT ENGINE OFF AND REMOVE KEY

## TIRE PRESSURE

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Recommended operating tire pressure should be 10 p.s.i.

Check sidewall of tire for manufacturer's maximum tire pressure. If this information does not appear on your tire, maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

## STARTING THE ENGINE

### NOTE

To open the hood, simply lift up on both sides of the hood.

1. Service the engine with oil and gasoline as described in the engine manual.
2. Depress the clutch-brake pedal and set the parking brake.
3. Place the lift and disengagement lever in the DISENGAGED position. See figure 12.

### NOTE

This unit is equipped with a **safety interlock system** for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the lift and disengagement lever is in the disengaged position. In addition, the lift and disengagement lever must be in the disengaged position when the unit is put into reverse or the engine will shut off. If the operator leaves the seat with the lift and disengagement lever engaged, the engine will shut off.



Do not operate the lawn tractor if the interlock system is malfunctioning because it is a safety device, designed for protection.

4. Set the throttle control in the FAST position. See figure 11.
5. Pull out choke knob to choke engine.

### NOTE

A warm engine may not require choking.

6. Turn the ignition key to the START position. When the engine is running, let the key return to the ON position. See figure 11.
7. Push choke knob in gradually. Move the throttle control to desired engine speed.

## STOPPING THE ENGINE

Turn the ignition key to the left to the OFF position. Remove the key to prevent accidental starting.

### NOTE

A brief break-in period is essential to ensure maximum engine and mower life. The break-in consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 5 hours of operation.

Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn tractor or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

### IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the mower.

### NOTE

If any problems are encountered, refer to the Trouble Shooting Chart on page 21.

## OPERATING THE LAWN TRACTOR

1. Start the engine as instructed in previous column.
2. Move throttle control to  $\frac{3}{4}$  or full throttle to prevent strain on the engine and to operate the cutting blades.
3. Place the shift lever in either the FORWARD or REVERSE position.



### CAUTION

Look to the rear before backing up.

4. Release the parking brake by depressing the clutch-brake pedal, pressing outward on the speed control lever and moving to desired position.

### NOTE

Use first speed position when operating the lawn tractor for the first time.

5. Release clutch-brake pedal slowly to put unit into motion.
6. The lawn tractor is brought to a stop by depressing the clutch-brake pedal.

### NOTE

When operating the unit initially, there will be little difference between the highest two speeds until after the belts have seated themselves into the pulleys during the break-in period.



### CAUTION

If the unit is not to be used for a long period, place the gear shift lever in **NEUTRAL**, stop the engine, set the parking brake and remove the key. **DO NOT** leave the machine on an incline.

**If unit stalls** with speed control in high speed, or if unit will not operate with speed control lever in a low speed position, proceed as follows.

1. Place shift lever in **NEUTRAL**.
2. Restart engine.
3. Place speed control lever in high speed position.
4. Release clutch-brake pedal fully.
5. Depress clutch-brake pedal.
6. Place speed control lever in desired position.
7. Place shift lever in either **FORWARD** or **REVERSE**, and follow normal operating procedures.

### OPERATING THE CUTTING BLADES

The cutting blades may be engaged while the lawn tractor is moving or standing still. **DO NOT** engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.



### WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening, the blades or any part of the deck.

Move the lift and disengagement lever into the **DISENGAGED** position to raise the deck and disengage the blades.



### NOTE

When the machine is used for other than mowing operations, the blade drive should be disengaged.

**GRASS CATCHER Model 064** is available as optional equipment for the lawn tractor shown in this manual.



### WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.

### NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag.

## ADJUSTMENTS

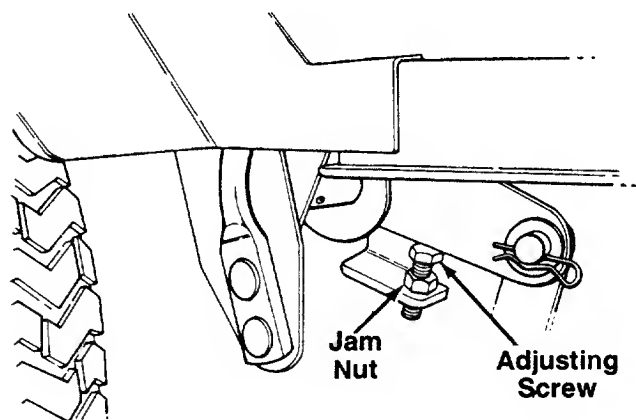
### SEAT ADJUSTMENT

To adjust the position of the seat, loosen the four self-tapping screws on the bottom of the seat. See figure 9. Slide the seat forward or backward as desired. Retighten the self-tapping screws.

### DECK LEVELING ADJUSTMENT

If an uneven cut is obtained, the deck may be leveled as follows.

1. Move the lift and disengagement lever forward (lower the cutting deck). Make certain the deck wheels are not resting on the ground.
2. Using a 1/2" wrench, loosen the jam nut located at the right rear deck link. See figure 13. It may be helpful to raise the cutting deck slightly to loosen the jam nut and to move the adjusting screw.



**FIGURE 13.**

3. With unit on hard, level surface, measure the distance from the bottom edge of the center of the left side of deck to the ground. Measure the same distance just behind the chute area on the right side of the deck. Or, place the blades in a straight line, and measure the distance from the outside edge of the blade tips to the ground.

4. Adjust the deck as follows: To raise the right side of the deck, tighten the adjusting screw. To lower the right side of the deck, back the adjusting screw off several turns. Remeasure the deck as described in step 3, and readjust if necessary. Tighten the jam nut to secure the adjusting screw when the deck is level.

#### SPEED CONTROL ADJUSTMENT (See figure 14)

##### NOTE

When operating the unit initially or after replacing the belts, there will be little difference between the highest two speeds until after the belts have gone through a break-in period and have seated themselves into the pulleys.

First, adjust the speed control lever by pushing the clutch-brake pedal forward until the stop on the brake rod is  $1/8"$  to  $1/4"$  away from the variable speed pulley bracket. See figure 14. Have another person hold the pedal in this position as you make the following adjustment. Place the speed control lever in parking brake position. Remove the hairpin cotter and flat washer from the rod attached to the back of the speed control lever. Adjust the ferrule on the rod so the stop on the brake rod is between  $1/8"$  and  $1/4"$  away from the bracket. See figure 14. Replace the flat washer and hairpin cotter.

Next, adjust the speed control link as follows to obtain the correct neutral adjustment.

1. Start the engine.
2. Place the shift lever in Neutral position.
3. Place the speed control lever in high speed position.
4. Release the clutch-brake pedal completely, then slowly depress the pedal all the way (to park position). Hold the pedal in this position.
5. Turn the engine off.
6. After engine stops completely, release the clutch-brake pedal.
7. Position speed control lever as follows.
  - a. **7-speed units:** Place speed control lever in second position.
  - b. **5-speed units:** Place speed control lever in first position.
8. Remove the cotter pin and flat washer which secures the ferrule on the speed control link to the bracket on the clutch-brake pedal assembly.
9. Push the clutch-brake pedal backward by hand as far as it will go using light pressure. Hold it in this position as you thread the ferrule on or off the speed control link until it lines up with the hole in the clutch-brake pedal assembly.
10. Secure the ferrule on the speed control link to clutch-brake pedal assembly with flat washer and cotter pin.

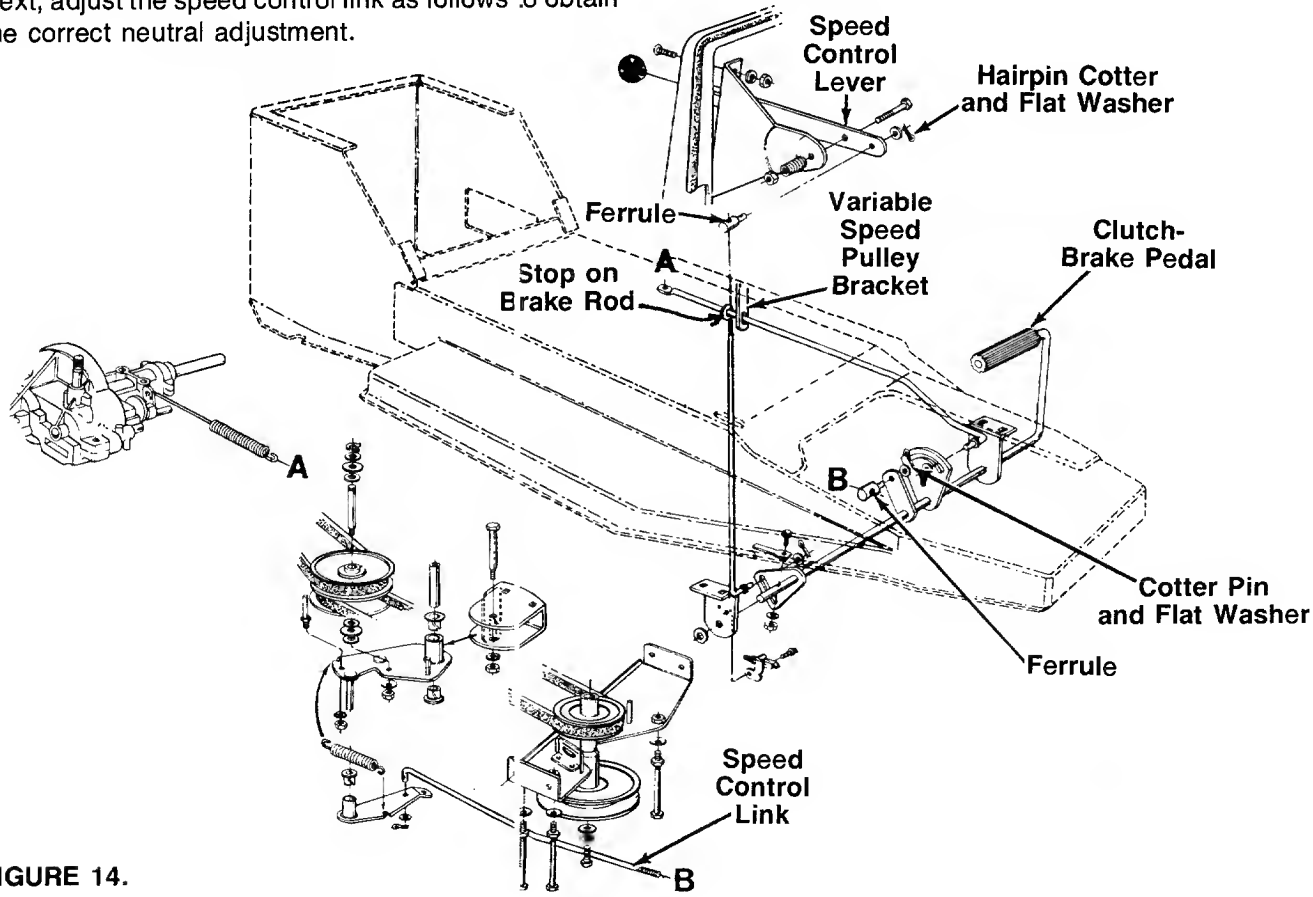


FIGURE 14.

## NEUTRAL ADJUSTMENT (Wheel Drive)

1. Place the transmission in neutral. (The unit will move freely when pushed forward and backward with the parking brake released.)
2. Loosen the bolt which secures the shift lever assembly to the shift lever adjusting link. See figure 15.
3. Place the shift lever in the neutral slot. See figure 15.
4. Tighten the bolt to 13 foot pounds.

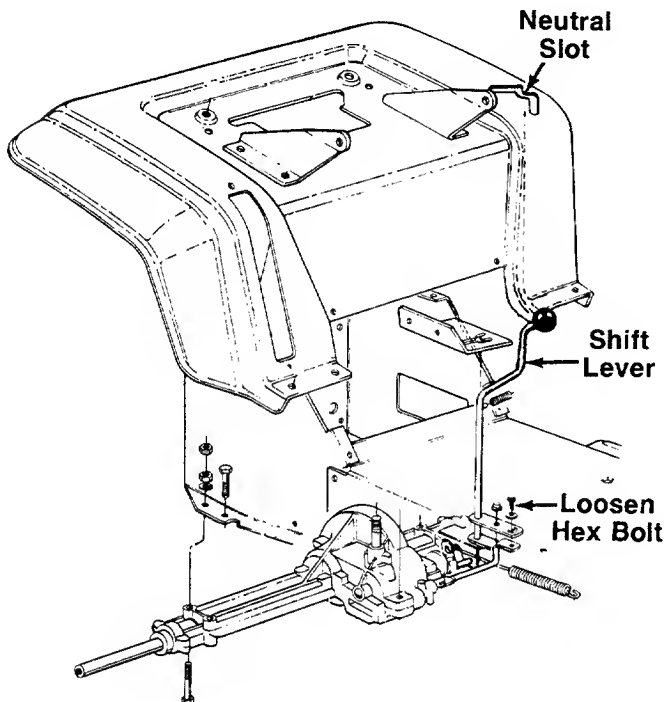


FIGURE 15.

## CUTTING DECK ENGAGEMENT ADJUSTMENT

The cutting deck engagement may be adjusted to make certain deck is disengaged when lift handle is in the disengaged position, or to obtain more drive in the cutting positions. Correct adjustment as follows.

Place the lift handle in the highest cutting position (first notch down from disengaged position). The jam nuts on the threaded rod (above the rear of the deck) should be approximately 1/16" from the end of the tubing. See figure 16.

Move the jam nuts down the threaded rod to start to disengage the deck earlier. Move the jam nuts up to obtain more drive in the cutting positions.



### WARNING

Make certain the unit is adjusted so that the cutting blades are disengaged when the lift handle is in the disengaged position.

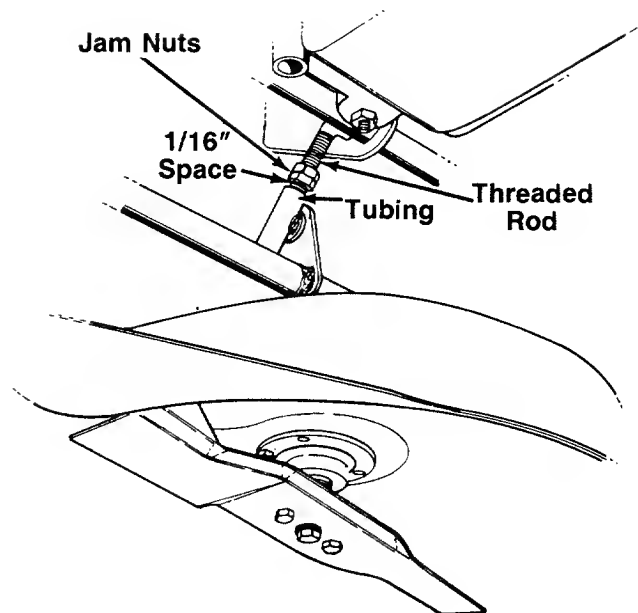


FIGURE 16.  
WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in, follow these steps.

1. Remove the cotter pin and flat washer from the ferrule on the tie rod end on the ~~left~~ **RIGHT** side of the tractor. See figure 17.

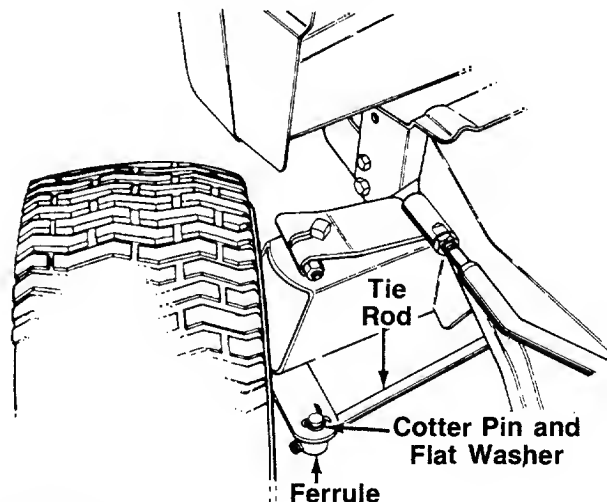


FIGURE 17.

2. Adjust the tie rod for correct toe-in by threading the ferrule in or out as necessary.

Dimension "B" should be approximately 1/8" less than Dimension "A." See figure 18.

- A.) To increase Dimension "B," thread the ferrule onto the tie rod.
- B.) To decrease Dimension "B," unscrew the ferrule from the tie rod.

C.) Reassemble tie rod. Check dimensions. Readjust if necessary.

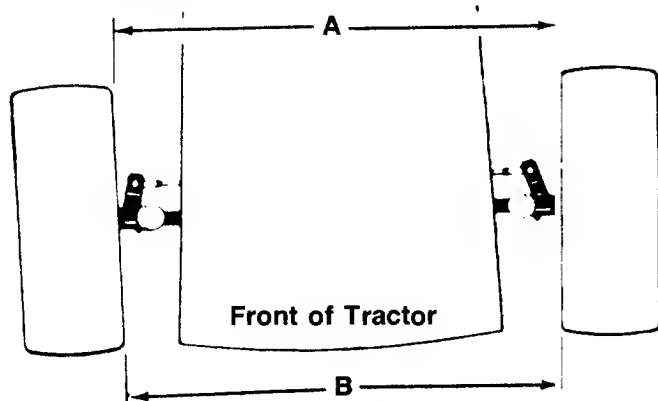


FIGURE 18. TOE-IN DIAGRAM

### CARBURETOR ADJUSTMENT



#### WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

**Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.** To adjust the carburetor, refer to the separate engine manual packed with your unit.



#### NOTE

A dirty air cleaner will cause an engine to run rough. Be certain a cleaner is clean and attached to the carburetor before adjusting carburetor. Refer to the separate engine manual.

### BRAKE ADJUSTMENT (See figure 19)

The brake is located by the left rear wheel inside the frame. During normal operation of this machine, the brake is subject to wear and will require periodic examination and adjustment.



#### WARNING

Do not have the engine running when you adjust the brake.

To adjust the brake, remove the cotter pin. Adjust the castle nut so the brake starts to engage when the brake lever is  $\frac{1}{4}$ " to  $\frac{5}{16}$ " away from the axle housing.



#### NOTE

Figure 19 is shown with the unit tipped up on rear wheels for clarity only.

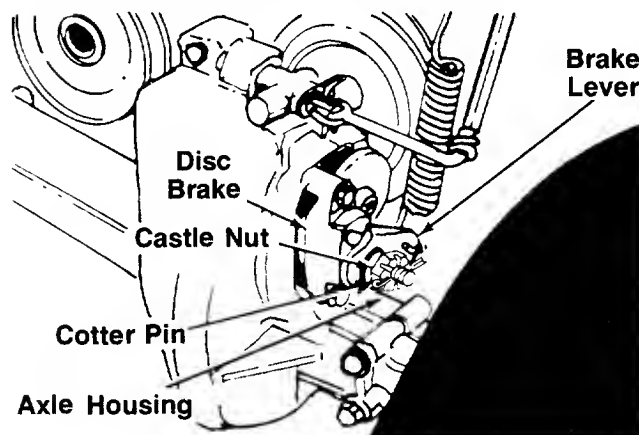


FIGURE 19.

## LUBRICATION



#### WARNING

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn tractor.

### STEERING GEARS

Lubricate teeth of steering gears with automotive multi-purpose grease after every 25 hours of operation or once a season.

### STEERING SHAFT

Lubricate steering shaft at least once a season with light oil.

### TRANSAXLE

The transaxle is lubricated and sealed at the factory and does not require checking. If disassembled for any reason, lubricate with 10 oz. of grease, part number 737-0148.

### FRONT WHEELS

The front wheels are provided with grease fittings. Lubricate at least once a season with automotive multi-purpose grease.

### PIVOT POINTS

Lubricate all pivot points with light oil at least once a season.



# MAINTENANCE



## WARNING

Disconnect the spark plug wire and ground against the engine before performing any repairs or maintenance.

### TROUBLE SHOOTING

Refer to page 21 of this manual for trouble shooting information.

### CRANKCASE OIL

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil level should be maintained as instructed in the separate engine manual.

After the first five hours of operating a new engine, drain the oil from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. Refer to the engine manual.

### AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. To service the air cleaner, refer to the separate engine manual packed with your unit.

### CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

### SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specification.

### CUTTING BLADE

#### A. Removal for Sharpening or Replacement



## WARNING

Be sure to disconnect and ground the spark plug wire and remove ignition key before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades.

1. Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle.
2. Remove the blade and adapter from the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

#### B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.



## NOTE

It is recommended that the blade always be removed from the adapter for the best test of balance.

#### C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the spindle and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be certain the wide blade is assembled on the right side of the deck. Be sure to install the blades with the side of the blades marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

#### Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.

5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

### FUEL FILTER

Your unit is equipped with a replaceable in-line fuel filter. Replace filter whenever contamination or discoloration is noticed. Order replacement filter through your engine authorized service dealer.

### DRIVE BELT REMOVAL AND REPLACEMENT



## WARNING

Disconnect the spark plug wire and ground it against the engine. Block the wheels of the unit.

**NOTE**

When changing the rear drive belt, a spring puller or other suitable tool is required to remove an extension spring. A spring puller (part number 732-0571) is available to assist in removal of this spring.

**NOTE**

Figures 20, 24 and 25 are shown with the unit tipped up for clarity. It is not necessary to tip the unit to remove the belts.

### Removing the Deck Belt

1. Place the lift lever in the disengaged position.
2. Remove the three hex bolts (belt keepers) from the engine pulley belt guard. See figure 20.

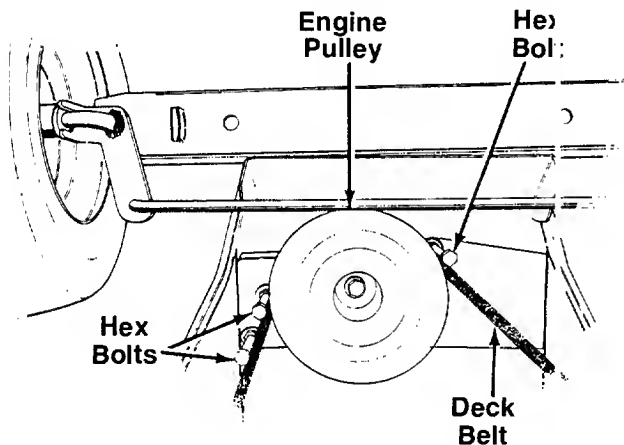


FIGURE 20.

**NOTE**

Make certain hex bolts are reassembled as shown in figure 20.

3. Unhook the deck belt from the engine pulley.
4. Place the lift lever in the engaged (all the way forward) position.
5. Disconnect the spring from the left rear deck bracket. See figure 21.
6. Disconnect the top of the four deck links by removing the hairpin clips and flat washers.
7. Slide the threaded rod out of the tubing. See figure 21. Slide the deck from beneath the lawn tractor.

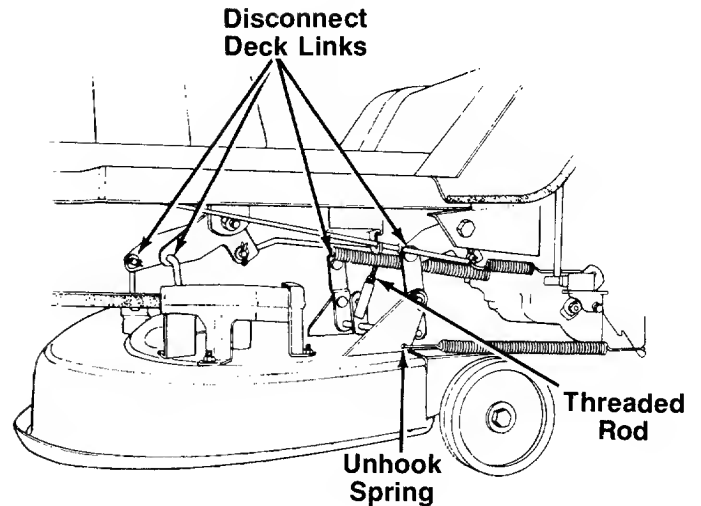


FIGURE 21.

8. Remove the belt guards at each deck pulley by removing the hex bolts, lock washers and hex nuts. See figure 22.
9. Remove and replace the belt, following the instructions in reverse order.

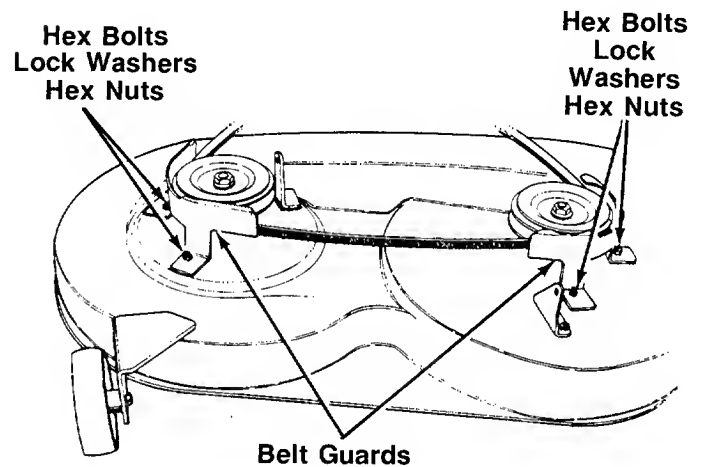


FIGURE 22.

### Removing the Rear Drive Belt (Refer to figure 24)

1. Remove the cutting deck, following steps 1 through 7 of "Removing the Deck Belt" instructions.
2. Start the engine. Place shift lever in neutral. Place speed control lever in high speed position and turn engine off. Do not set parking brake.
3. Disconnect the large spring from the transmission support bracket, using a spring puller or other suitable tool. An access hole is provided in the rear of the frame for this purpose. See figure 23.

**NOTE**

A spring puller (part number 732-0571) is available to assist in removal of this spring.

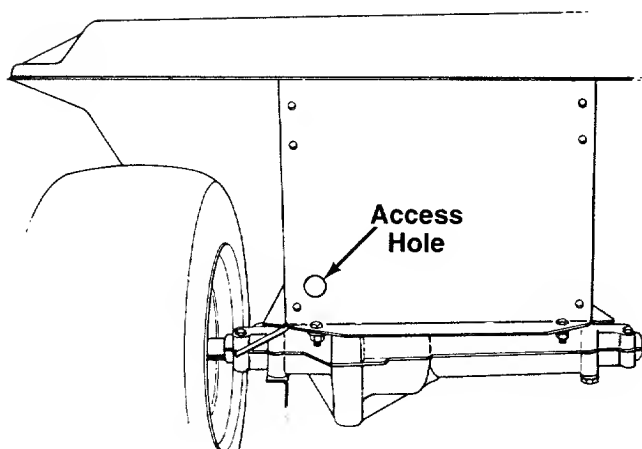


FIGURE 23.

4. Disconnect the small spring from the bolt on the right side of the frame and transmission support bracket.
5. Remove the brake rod out of the variable speed pulley bracket.
6. Loosen (**do not remove**) the bolts which secure the variable speed pulley bracket to allow clearance in order to remove the belts. A 7/16" socket wrench with extension is required.
7. Remove the rear drive belt from around the top of the variable speed pulley. Remove belt from transmission pulley and idler pulley.
8. Reassemble new belt, following instructions in reverse order.

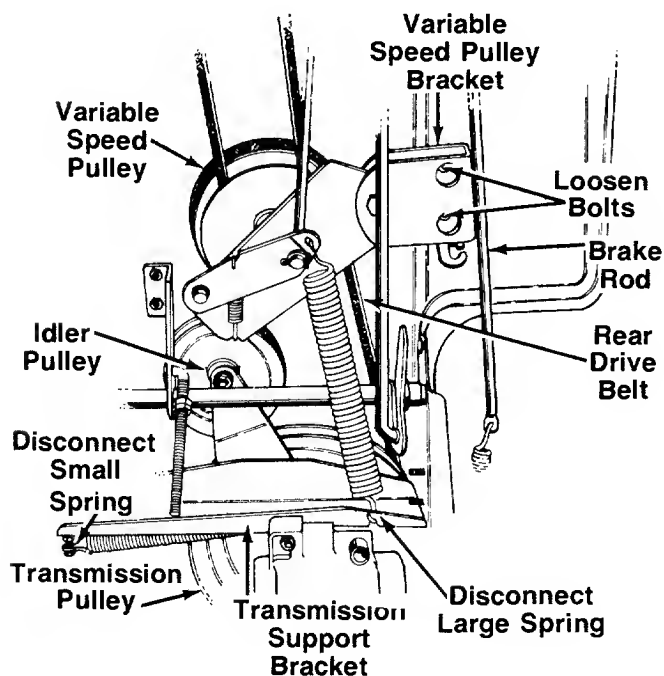


FIGURE 24.

### Removing the Forward Drive Belt (See figure 25)

1. To remove the forward drive belt, first remove the rear drive belt (steps 1 through 7 of the preceding instructions).
2. Remove the engine pulley belt guard by removing two self-tapping screws from each side of the frame. Remove the engine pulley belt guard by moving it back and to the left.
3. Remove the forward drive belt from the engine pulley and from the variable speed pulley.
4. Reassemble new belt, following instructions in reverse order.

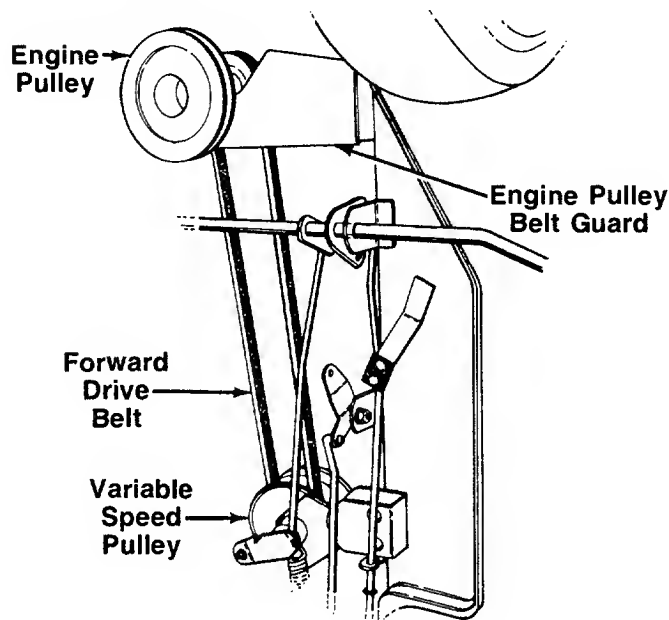


FIGURE 25.

### BATTERY REMOVAL OR INSTALLATION



#### WARNING

When removing the battery, follow this order of disassembly to prevent the screwdriver from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

### JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



Failure to use this starting procedure could cause sparking, and the gas in either battery could explode.

### BATTERY MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or a good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

### BATTERY STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
3. Store in cold, dry place.
4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

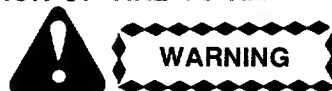
### COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



THESE FAILURES DO NOT CONSTITUTE WARRANTY.

### INSTALLATION OF TIRE TO RIM



The following procedure must be followed when removing or installing a tire to the rim.

1. Be sure rim is clean and rust free.
2. Lubricate both the tire and rim generously.
3. Never inflate to over 30 p.s.i. to seat beads. Excessive inflation pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury.

## OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, prepare for storage as follows.

1. Clean the engine and the entire unit thoroughly.
2. Lubricate all lubrication points. Wipe the entire machine with an oiled rag to protect the surfaces.
3. Refer to the engine manual for correct engine storage instructions. The engine must be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel lines and fuel tanks.
4. Refer to battery storage instructions in previous column.
5. Store unit in a clean, dry area.



When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.

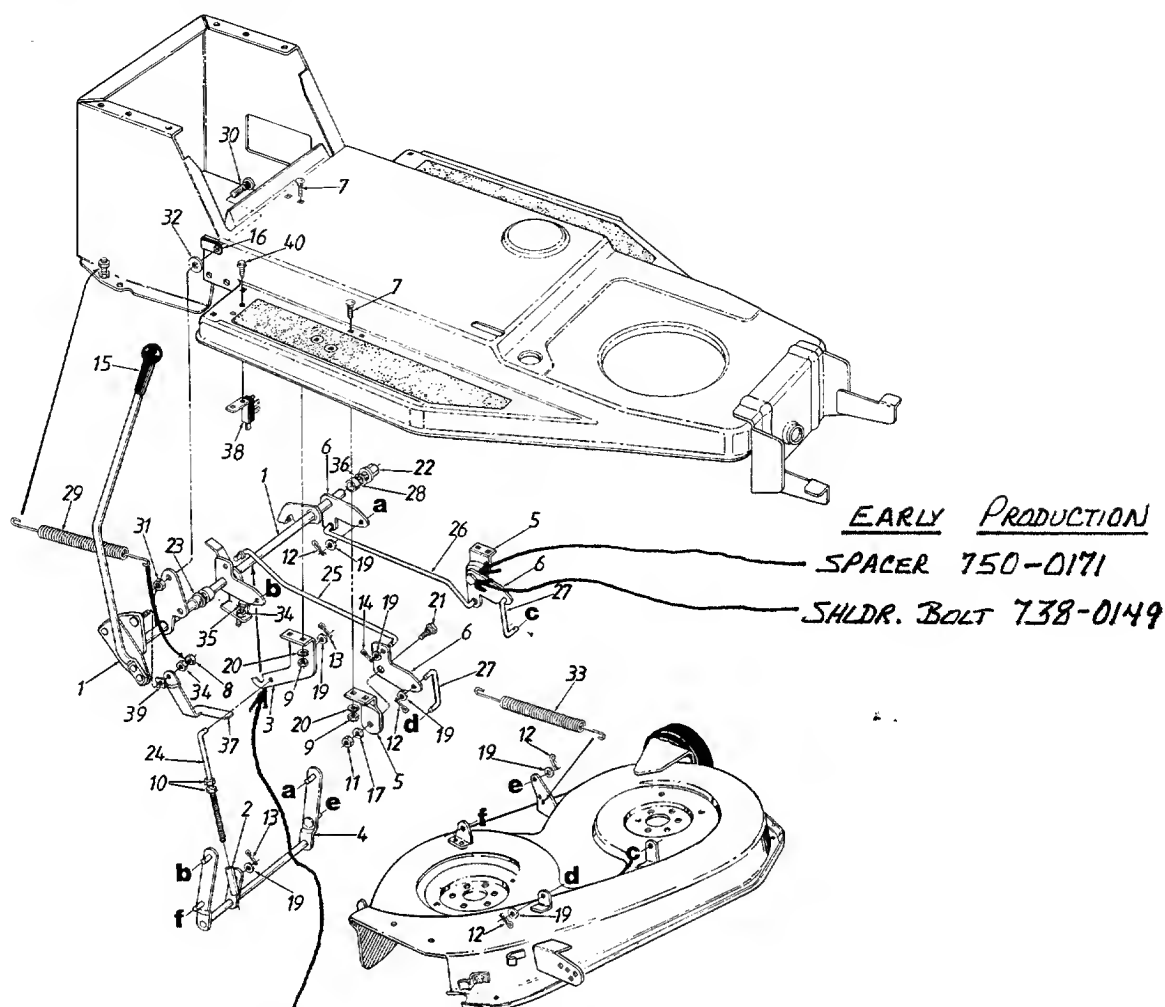
## TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative terminal, identified at the terminal post by (Neg, N or -), grounded. The positive terminal (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blown fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working.</p> <p>The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;"> </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
	Mechanical failure (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. <b>WARNING:</b> While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. <b>If the engine does not crank:</b> (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke for starting.
	No spark to spark plug	<p>Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer.</p> <p>Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.</p>

## TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel line or in-line fuel filter plugged. Remove and clean fuel line. Replace filter if necessary.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	<b>Stop engine immediately.</b> Check all pulleys, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	<b>Stop engine immediately.</b> Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low Transmission selection Blades short or dull	Throttle must be set between 3/4 and full throttle. Use lower transmission speed. The slower your ground speed, the better the quality of cut. Sharpen or replace blades (uncut strip problem only). Make certain deck engagement adjustment is correct. Refer to page 15.

# Models 320 thru 357



**PARTS LIST FOR MODELS 320 THRU 357 LAWN TRACTORS**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	<del>16681</del> 16842		Lift Shaft Ass'y. <b>WILL CHANGE</b>	<b>Part No.</b>	22	741-0225		Hex Flange Brg.	
2	16682		Pivot Sleeve Ass'y.		23	741-0495		Nyliner Flanged Brg.	
3	16683		Deck Lock Out Brkt.		24	747-0677		J-Bolt 3/8-16 x 5.25" Lg.	
4	16688		Stabilizer Ass'y.		25	747-0678		Connecting Rod—R.H.	
5	16692		Deck Lift Hanger		26	747-0679		Connecting Rod—L.H.	
6	16698		Deck Lift Float Brkt.		27	747-0689		Lift Link	
7	710-0134		Carr. Bolt 1/4-20 x .62" Lg.		28	750-0547		Spacer	
8	712-0158		Hex L-Nut 5/16-18 Thd.		29	732-0153		Spring 8.65" Lg.	
9	712-0287		Hex Nut 1/4-20 Thd.*		30	710-0793		Ribbed Neck Bolt 3/8-24 x .80" Lg. (Special)	
10	712-0711		Hex L-Nut 3/8-24 Thd.		31	712-0241		Hex Nut 3/8-24 Thd.*	
11	712-0798		Hex Nut 3/8-16 Thd.*		32	736-0354		Fl-Wash. 3/8" I.D.	
12	714-0104		Intern. Cot-Pin 5/16" Dia.		33	732-0564		Deck Spring 10.33" Lg.	
13	714-0115		Cot-Pin 1/8" Dia.		34	712-0267		Hex Nut 5/16-18 Thd.*	
14	714-0507		Cot-Pin 3/32" Dia.		35	710-0602		Hex Wash. Hd. Tap Scr. 5/16-18 x 1.0" Lg.	
15	720-0143		Grip		36	736-0174		Spr. Wash. .625" I.D.	
16	726-0267		Clamp		37	16716		Switch Activating Brkt.	
17	736-0169		L-Wash. 3/8" I.D.*		38	725-0803		Safety Switch	
19	736-0185		Fl-Wash. .406" I.D. x .75" O.D.		39	736-0170		L-Wash. 5/16" I.D. (Special)	
20	736-0329		L-Wash. 1/4" I.D.*		40	710-0224		Hex AB-Tap Scr. #10 x .5" Lg.	
21	738-0281		Shld. Bolt .625 Dia. x .170" Lg.						

# Models 320 thru 357

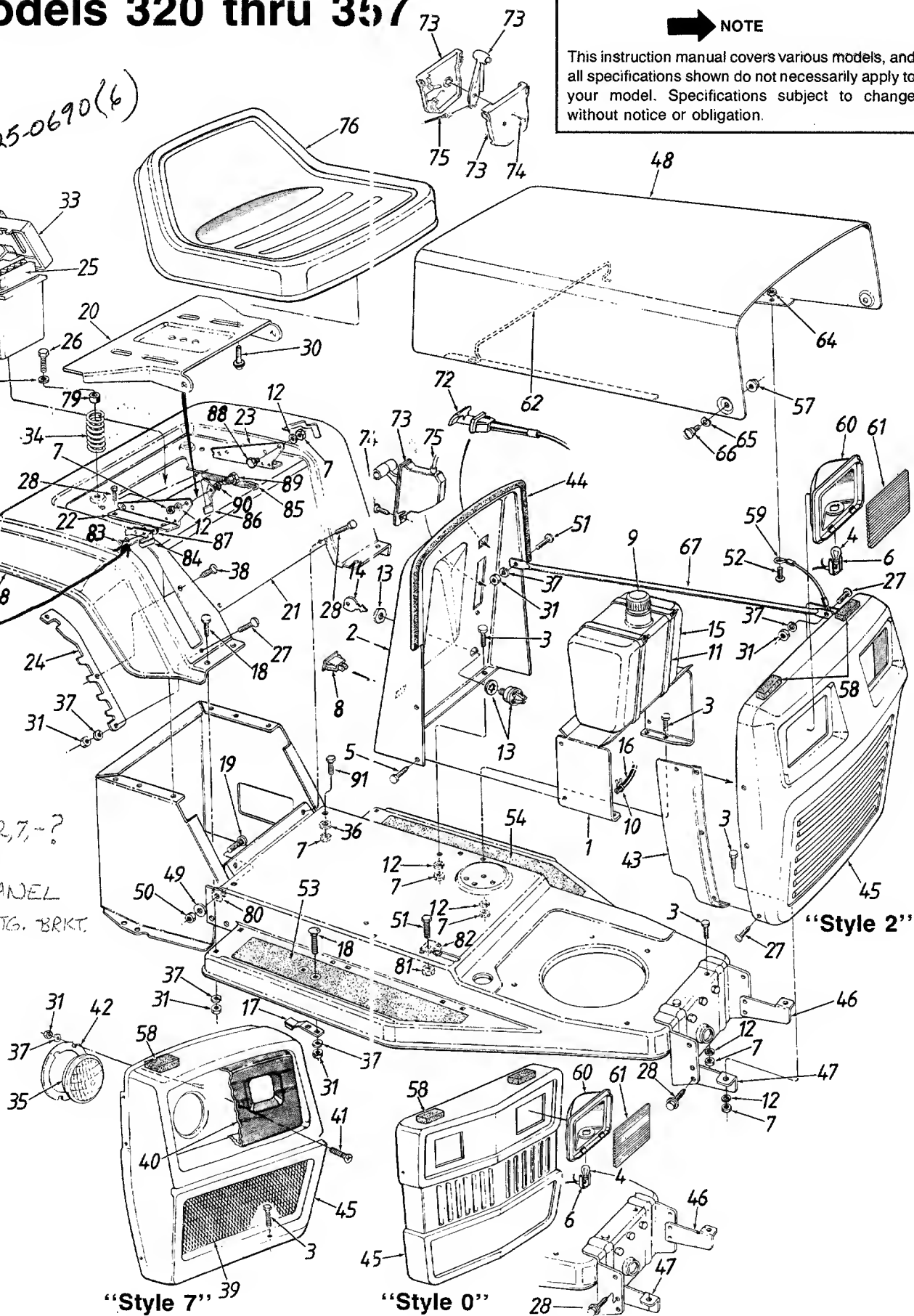


## NOTE

This instruction manual covers various models, and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

CAP 725-0690(6)

STYLE 0,2,7,-?  
HOOD  
SIDE PANEL  
GRILLE MTG. BRKT.





# Models 320 thru 357

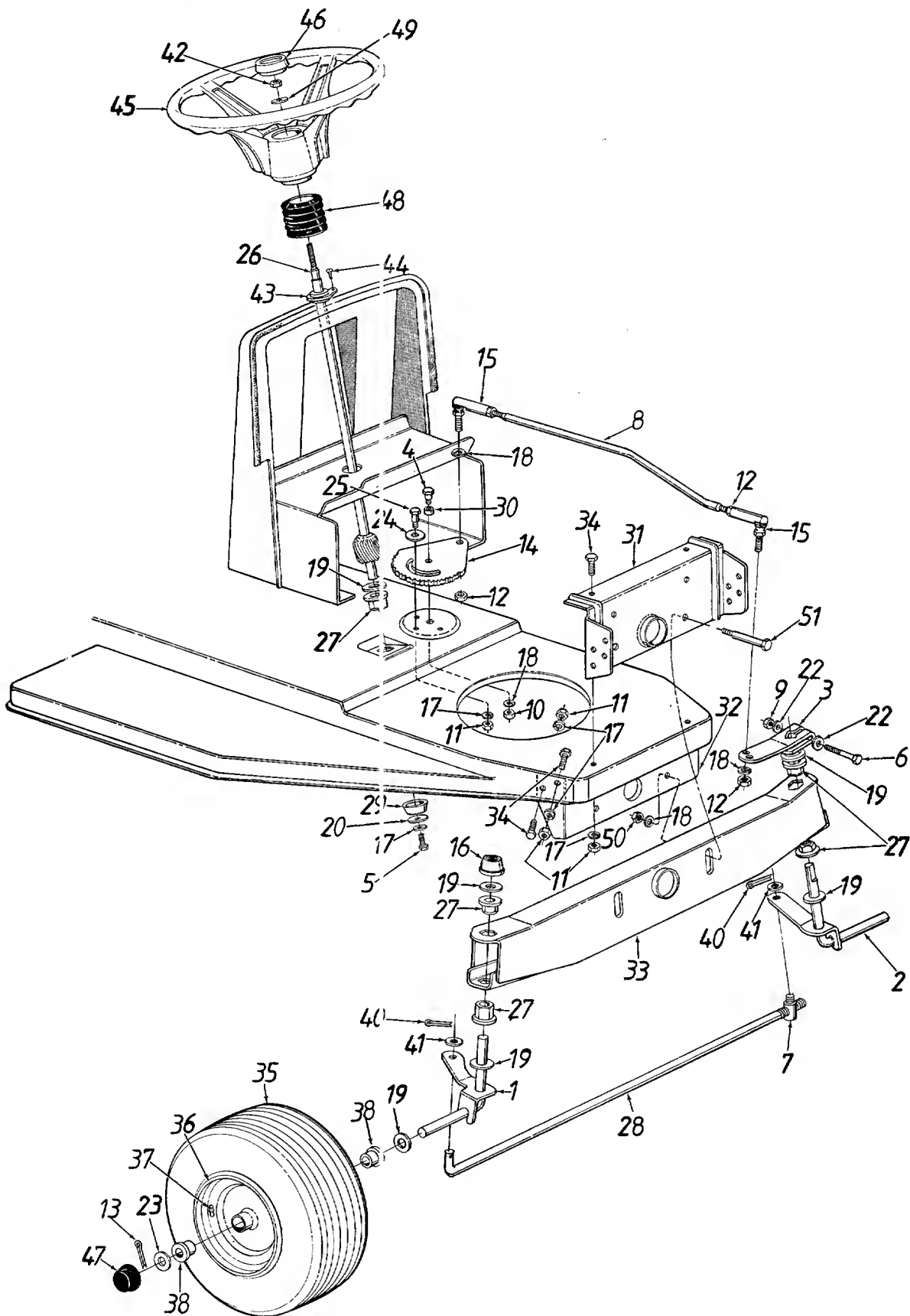
## PARTS LIST FOR MODELS 320 THRU 357 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	16655		Dash Panel Support Brkt.		44	731-0511		Trim Strip 31" Lg.	
2	16656		Dash Panel		45	17025		Grille (Style 2)	
3	710-0118		Hex Bolt 5/16-18 x .75" Lg.*			14787		Grille (Style 7)	
4	725-0963		Bulb (Style 0, 2)			17028		Grille (Style 0)	
5	710-0776		Hex AB-Tap Scr. 1/4 x .62"		46	17131		Grille Mtg. Brkt.—L.H.	
6	725-1058		Socket (Style 0, 2)					(Style 2)	
7	712-0267		Hex Nut 5/16-18 Thd.*			17143		Grille Mtg. Brkt.—L.H.	
8	725-0634		Light Switch					(Style 0, 7)	
9	723-0333		Gas Gauge		47	17132		Grille Mtg. Brkt.—R.H.	
10	726-0207		Hose Clamp					(Style 2)	
11	726-0209		Cable Tie			17144		Grille Mtg. Brkt.—R.H.	
12	736-0119		L-Wash. 5/16" I.D.*					(Style 0, 7)	
13	725-0267		Ignition Switch		48	16681	638	Hood (Style 2, 7)	
14	725-0201		Ignition Key			17146	638	Hood (Style 0)	
15	751-0172		Fuel Tank		49	736-0217		L-Wash. 3/8" I.D.—H.D.	
16	751-0173		Gas Line 24" Long		50	712-0241		Hex L-Nut 3/8-24 Thd.	
17	761-0157		Blade Brake Ass'y.		51	710-0258		Hex Bolt 1/4-20 x .62" Lg.*	
18	710-0134		Carriage Bolt 1/4-20 x .62"		52	710-0473		Truss Mach. Scr. #10-24 x	
19	710-0793		Ribbed Neck Bolt 3/8-24 x .8"					.5" Lg.	
20	15607		Seat Pivot Brkt.		53	723-0308		Foot Pad—R.H.	
21	16660	638	Rear Fender		54	723-0309		Foot Pad—L.H.	
22	17284		Seat Hinge Support Brkt.—	N	57	712-0380		Lock Nut 1/4-28 Thd.	
			R.H.		58	722-0157		Foam Strip (Optional)	
23	17283		Seat Hinge Support Brkt.—	N	59	723-0302		Hood Stop	
			L.H.		60	731-0705		Headlight Housing (Style 0, 2)	
24	17133		Deck Lift Index Brkt.		61	731-0706		Lens (Style 0, 2)	
25	725-0514		Battery		62	732-0414		Hood Spring	
26	710-0602		Hex Self-Tap Screw 5/6-18 x		64	712-0272		Hex Sems Nut #10-24 Thd.	
			1" Lg.		65	736-0413		Spr. Wash. .39" I.D. x .62"	
27	710-0255		Truss Mach. Scr. 1/4-20 x					O.D.	
			.75" Lg.		66	738-0724		Shld. Bolt	
28	710-0726		Hex AB-Tap Scr. 5/16 x .75"		67	749-0722		Grille Support	
			Lg.		68	731-0511		Trim Strip 81" Lg.	
30	710-0623		Hex Self-Tap Scr. 3/8-16 x		72	746-0617		Choke Control	
			.75" Lg.		73	831-0823		Throttle Control Box	
31	712-0287		Hex Nut 1/4-20 Thd.*		74	710-0779		Truss AB-Tap Scr. #10 x .5"	
33	731-0871		Battery Box w/Cover		75	746-0501		Throttle Wire	
34	732-0548		Compression Spring		76	757-0345		Seat Assembly	
35	725-0222		Headlight (Style 7)		78	736-0159		Flat Wash. .344" I.D. x .88"	
36	736-0242		Bell-Wash. 5/16" I.D.					O.D.	
37	736-0329		L-Wash. 1/4" I.D.*		79	722-0160		Bushing	
38	710-0351		Truss Wash. Hd. Tap Scr.		80	726-0267		Clamp	
			#10 x .5" Lg.		81	712-0107		Hex L-Nut 1/4-20 Thd.	
39	731-0881		Grille Insert (Style 7)		82	726-0175		Clamp	
40	731-0465		Bezel (Style 7)†		83	710-0227		Hex Tap Scr. #8 x .5" Lg.	
41	710-0346		C-Sunk Mach. Scr. 1/4-20 x		84	725-1303		Spring Switch	
			1.5" (Style 7)†		85	732-0581		Ext. Spring 5.31" Lg.	
42	09960		Headlight Retainer (Style 7)		86	17239		Seat Lift Brkt.	
43	16622		Side Panel—R.H. (Style 2)		87	726-0222		Insulator Nut Plate	
	16621		Side Panel—L.H. (Style 2)		88	738-0155		Shld. Bolt .437" Dia. x .162"	
			(Not Shown)					Lg.	
	14748		Side Panel—R.H. (Style 7)		89	738-0296		Shld. Bolt .437" Dia. x .268"	
	14749		Side Panel—L.H. (Style 7)					Lg.	
			(Not Shown)		90	736-0141		Spr. Wash. .445" I.D. x .75"	
	14670		Side Panel—R.H. (320, 330,					O.D.	
			340)		91	710-0759		Hex Bolt 5/16-18 x 5/8" Lg.*	
	17175		Side Panel—R.H. (350)		92	736-0424		FIBER WASHER	
	14669		Side Panel—L.H. (Style 0)						
			(Not Shown)						

†Optional Parts

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

# Models 320 thru 357



# Models 320 thru 357

## PARTS LIST FOR MODELS 320 THRU 357 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	14650		Front Axle Ass'y.—R.H.		27	741-0225		Hex Flange Brg. .634 Dia.	
2	16479		Front Axle Ass'y.—L.H.		28	747-0558		Tie Rod 18.37 Lg.	
3	16481		Steering Arm		29	750-0532		Spacer .985 I.D.	
4	710-0152		Hex Bolt 3/8-24 x 1" Lg.*		30	750-0535		Spacer .380 I.D.	
5	710-0538		Hex Bolt 5/16-18 x .62" (Spec.)		31	16657		Front Pivot Bar Support Brkt.	
6	710-0772		Hex Bolt 5/16-24 x 2" Lg.*		32	16658		Rear Pivot Bar Support Brkt.	
7	711-0198		Ferrule		33	17127		Pivot Bar Ass'y.	
8	711-0809		Steering Drag Link		34	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
9	712-0237		Hex L-Nut 5/16-24 Thd.		35	734-1422		Front Wheel Ass'y. Comp. 13 x 6	
10	712-0241		Hex Nut 3/8-24 Thd.			734-1421		Tire Only	
11	712-0267		Hex Nut 5/16-18 Thd.*		36	734-0997		Rim Ass'y. Only	
12	712-0711		Hex Jam Nut, 3/8-24		37	734-0255		Air Valve	
13	714-0470		Cotter Pin 1/8 Dia.		38	741-0487		Flange Bearing .632 I.D.	
14	717-0622		Steering Gear Segment		40	714-0111		Cotter Pin 3/32" Dia.	
15	723-3018		Drag Link Ball Joint 3/8-24 Thd.		41	736-0185		Fl-Wash. .406" I.D. x .75"	
16	726-0214		Push Cap		42	712-0237		Hex L-Nut 5/16-24 Thd.	
17	736-0119		L-Wash. 5/16" I.D.*		43	741-0501		Steering Column Brg.	
18	736-0169		L-Wash. 3/8" I.D.*		44	710-0837		Cr-Sunk Scr. #10 x 5/8" Lg.	
19	736-0187		Fl-Wash. .64" I.D. x 1.24"		45	731-0805		Steering Wheel	
20	736-0343		Fl-Wash. .340" I.D. x 1.25"		46	731-0220		Steering Wheel Cap	
22	736-0271		Spr. Wash. .32 I.D. x .62		47	731-0484		Hub Cap	
23	736-0285		Fl-Wash. .635 I.D. x 1.585		48	731-0559		Bellow Steering Column	
24	736-0319	7198	Fl-Wash. .44 I.D. x 1.38	RETAINER PLATE	49	736-0242		Bell-Wash. .345 I.D. x .88	
25	738-0141		Shld. Bolt .437 Dia. x .350		50	712-0798		Hex Nut 3/8-16 Thd.*	
26	738-0730		Steering Shaft		51	738-0728		Shld. Bolt 1/2" Dia. x 2.32"	

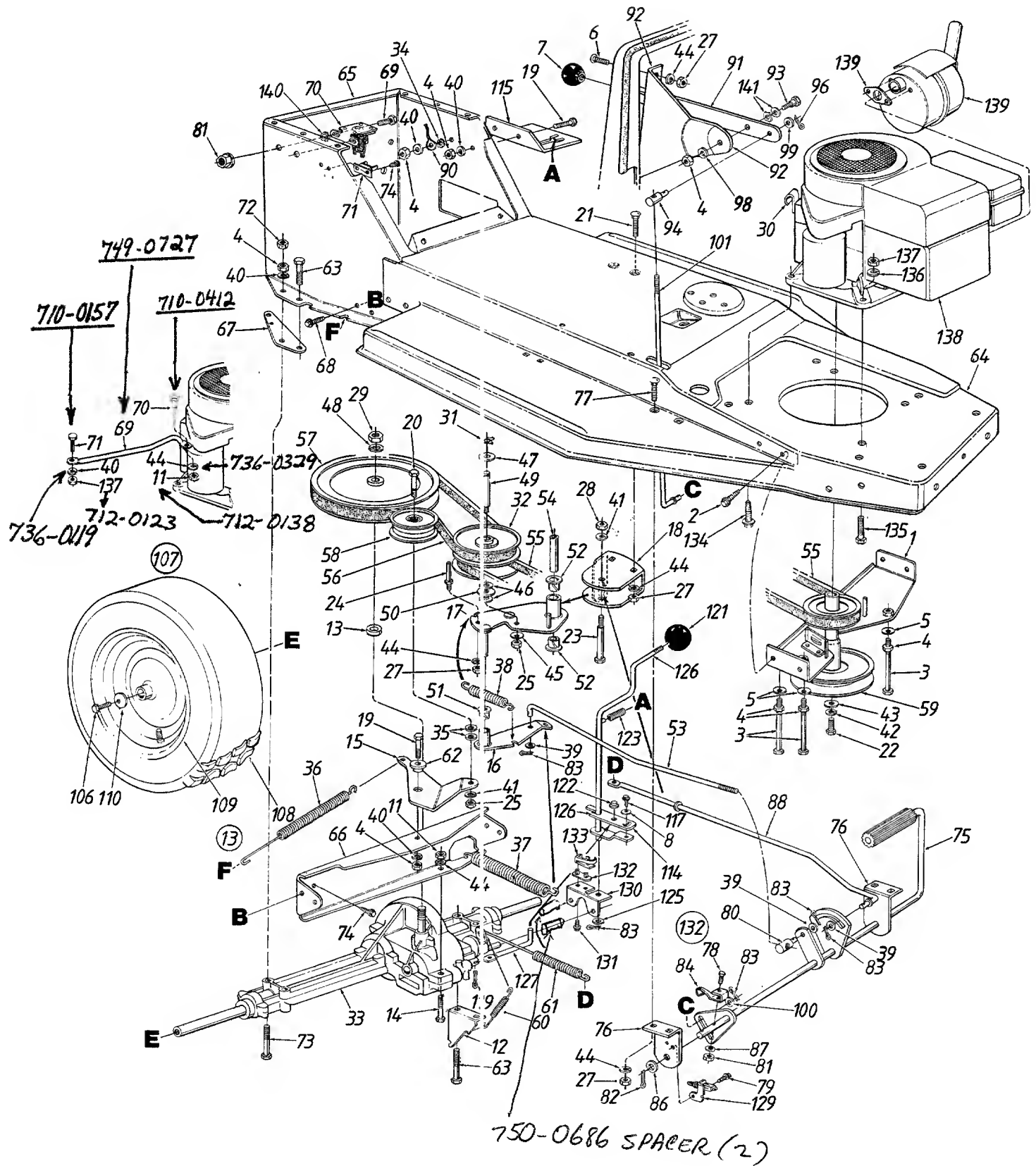
\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

If color or finish is important when ordering parts, use the appropriate color code shown below [i.e. (part no.)-638 for MTD Red Finish].

### Color Codes

312—White	480—Brilliant Green
436—Radiant Yellow	483—Charcoal Grey
447—Patina Silver	499—Beige
452—Black	629—Silver Flake
456—Radiant Tangerine	630—Blue
460—Green Flake	638—MTD Red

# Models 320 thru 357



# Models 320 thru 357

## PARTS LIST FOR MODELS 320 THRU 357 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	16670		Engine Pulley Belt Guard Ass'y.		60	732-0303		Extension Spring 3.18" Lg.	
2	710-0776		Hex AB-Tap Scr. 1/4 x .62"		61	732-0413		Extension Spring 7.08" Lg.	
3	710-0833		Hex Bolt 5/16-18 x 5 1/4" Lg.		62	748-0234		Shld. Spacer .500" Dia.	
4	712-0267		Hex Nut 5/16-18 Thd.*		63	710-0176		Hex Bolt 5/16-18 x 2.75" Lg.*	
5	736-0242		Bell-Wash. .345" I.D. x .88		64	16714		Front Frame	N
6	710-0286		Truss-Mach. Scr. 1/4-20 x .50" Lg.*		65	16715		Rear Frame	N
7	720-0165		Gear Shift Knob		66	16654		Transaxle Support Brkt.	
8	736-0270		Bell-Wash. .265" I.D. x .75		67	16659		Transaxle Brkt. Reinforcement	
11	712-0138		Hex Nut 1/4-28 Thd.*		68	710-0726		Hex Wash. AB-Tap Scr. 5/16 x .75" Lg.	
12	17128		Spring Retainer Brkt.		69	710-0258		Hex Bolt 1/4-20 x .62" Lg.*	
13	750-0721		Spacer .5" I.D.		70	725-0771		Solenoid	
14	710-0559		Hex Bolt 1/4-28 x 1.75" Lg.*		71	725-0459		Circuit Breaker	
15	15891		Idler Bracket		72	712-0158		Hex L-Nut 5/16-18 Thd.	
16	16352		Variable Speed Torque Brkt. Ass'y.		73	710-0189		Hex Bolt 5/16-18 x 3.0" Lg.*	
17	16676		Variable Speed Brkt. Ass'y.		74	710-0351		Truss Mach. B-Tap Scr. #10 x .50" Lg.	
18	16679		Variable Speed Pivot Brkt.		75	16689		Clutch/Brake Pedal Ass'y.	
19	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		76	16691		Clutch/Brake Pedal Mounting Brkt.	
20	710-0539		Hex Bolt 3/8-24 x 1 3/4" Lg. Gr. 5		77	710-0134		Carr. Bolt 1/4-20 x .62" Lg.	
21	710-0703		Carr. Bolt 1/4-20 x .75" Lg.		78	710-0597		Hex Bolt 1/4-20 x 1.0" Lg.*	
22	710-0757		Hex Bolt 7/16-20 x 1.5" Lg.*		79	710-0599		Hex TT-Tap Scr. 1/4-20 x .5" Ferrule	
23	710-0937		Hex Bolt 3/8-16 x 2.5" Lg.*		80	711-0198		Hex Sems Nut 1/4-20 Thd.	
24	711-0768		Belt Guard Pin		81	712-0271		Cot-Pin 3/32" Dia. x 1.0" Lg.	
25	712-0241		Hex Nut 3/8-24 Thd.*		82	714-0111		Cot-Pin 3/32" Dia. x .75" Lg.	
27	712-0287		Hex Nut 1/4-20 Thd.*		83	714-0507		Switch Actuator	
28	712-0798		Hex Nut 3/8-16 Thd.*		84	732-0582		FI-Wash. .635" I.D. x 1.0"	
29	712-0922		Hex Jam Nut 1/2-20 Thd.		86	736-0256		Brake Rod	
30	726-0175		Clamp		88	747-0686		Ground Wire 7.25" Lg.	
31	716-0114		Snap Ring		90	725-0976		Speed Control Lever	
32	717-0800		Variable Speed Pulley Ass'y.		91	16663		5 Speed Selector Brkt.	
33	717-0775		Transaxle Complete		92	16693		7 Speed Selector Brkt.	
34	736-0607		Ext. L-Wash. 5/16" I.D.		93	738-0141		Shld. Bolt .437" Dia. x .35" Lg.	
36	732-0384		Extension Spring 6.12" Lg.		94	711-0677		Ferrule	
37	732-0459		Extension Spring 7.5" Lg. 6.7"		95	712-0267		Hex Nut 5/16-18 Thd.*	
38	732-0568		Extension Spring 2.59" Lg.		96	714-0104		Intern. Cot-Pin 5/16" Dia.	
39	736-0117		FI-Wash. .385" I.D. x .620"		98	736-0119		L-Wash. 5/16 I.D.*	
40	736-0119		L-Wash. 5/16" I.D.*		99	736-0264		FI-Wash. .344" I.D. x .62"	
41	736-0169		L-Wash. 3/8" I.D.*		100	736-0463		FI-Wash. .25" I.D. x .62" O.D.	
42	736-0171		L-Wash. 7/16" I.D.*		101	747-0675		Speed Control Rod	
43	736-0322		FI-Wash. .450" I.D. x 1.25"		106	710-0627		Hex L-Bolt 5/16-24 x .75" Lg.	
44	736-0329		L-Wash. 1/4" I.D.*		107	734-1424		Rear Wheel Ass'y. Comp.	
45	736-0331		Bell-Wash. .39" I.D. x 1.13"		108	734-1423		Turf Tread 16.0 x 7.50 Rear	
46	736-0355		FI-Wash. .56" I.D. x 1.0" O.D.		109	734-1450		Rear Wheel Rim Ass'y.	
47	736-0414		Washer "Teflon" .565 I.D.		110	736-0242		Bell-Wash. .345" I.D. x .88"	
48	736-0921		L-Wash. 1/2" I.D.*		114	17178		Shift Lever Adjusting Link	N
49	738-0569		Shaft .56" Dia. x 3.875" Lg.		115	16482		Shift Lever Spring Brkt.	
50	741-0405		Thrust Brg. 1.25 O.D.		117	710-0289		Hex Bolt 1/4-20 x .50 Lg.*	
51	741-0419		Flanged Nyliner Brg.		119	714-0149		Intern. Cotter Pin	
52	741-0495		Nyliner Flanged Brg.		121	720-0175		Ball Knob	
53	747-0688		Speed Control Link		122	726-0231		Retaining Ring	
54	750-0703		Spacer		123	732-0499		Compression Spring 1.5" Lg.	
55	754-0280		V-Belt .70x53.17 GATES 8057-0058X1		125	736-0226		FI-Wash. .469" I.D. x .88"	
56	754-0281		V-Belt .70x44.20 GATES 8957-0012		126	747-0694		Shift Rod Ass'y.	
57	756-0374		1/2 V-Pulley .500" I.D. x 8.00"		127	747-0685		Shift Rod	
58	756-0437		Idler Pulley 3-1/8" Dia.		129	725-0577		Safety Switch	
59	756-0508		Dbl. Pulley 6.0" Dia. x 3.56"						

# Models 320 thru 357

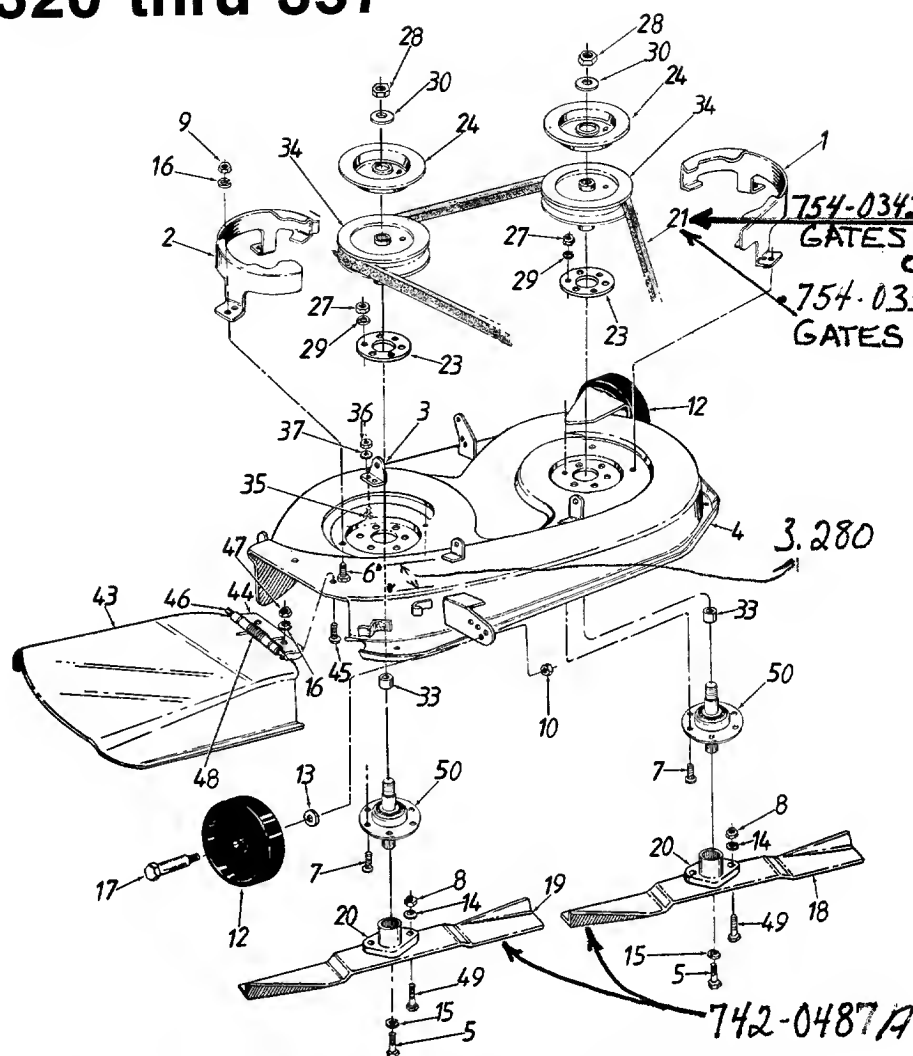
## PARTS LIST FOR MODELS 320 THRU 357 LAWN TRACTORS (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
130	17179		Shift Lever Support	N
131	710-0227		Hex Wash. Hd. #8 x .50" Lg.	
132	726-0222		Insulator Nut Plate	
133	725-0758		Spring Switch	
134	710-0502		Hex Wash. Hd. Tap Scr. 3/8-16 x 1.25" Lg.	
135	710-0672		Hex Bolt 5/16-24 x 1 1/4" Lg. Grade 5	
136	736-0119		L-Wash. 5/16" I.D.*	
137	712-0123		Hex Nut 5/16-24 Thd.*	
138	—		Engine	
139	†		Muffler	
140	736-0222		Ext. L-Wash. 1/4" I.D.	
141	736-0141		Wave Wash. .445" I.D.	

### †MUFFLER CHART

Engine	Muffler	Mounting Hardware
8 HP	751-0157	Self-Tap Screw 710-0894 Conduit Lock Nut 712-0257 Deflector 751-0447
10 HP	751-0157	Self-Tap Screw 710-0894 Conduit Lock Nut 712-0257 Deflector 751-0438
11 HP	751-0450	Shoulder Bolt 738-0636 Gasket 721-0208
12 HP	751-0453	Shoulder Bolt 738-0636 Gasket 721-0208

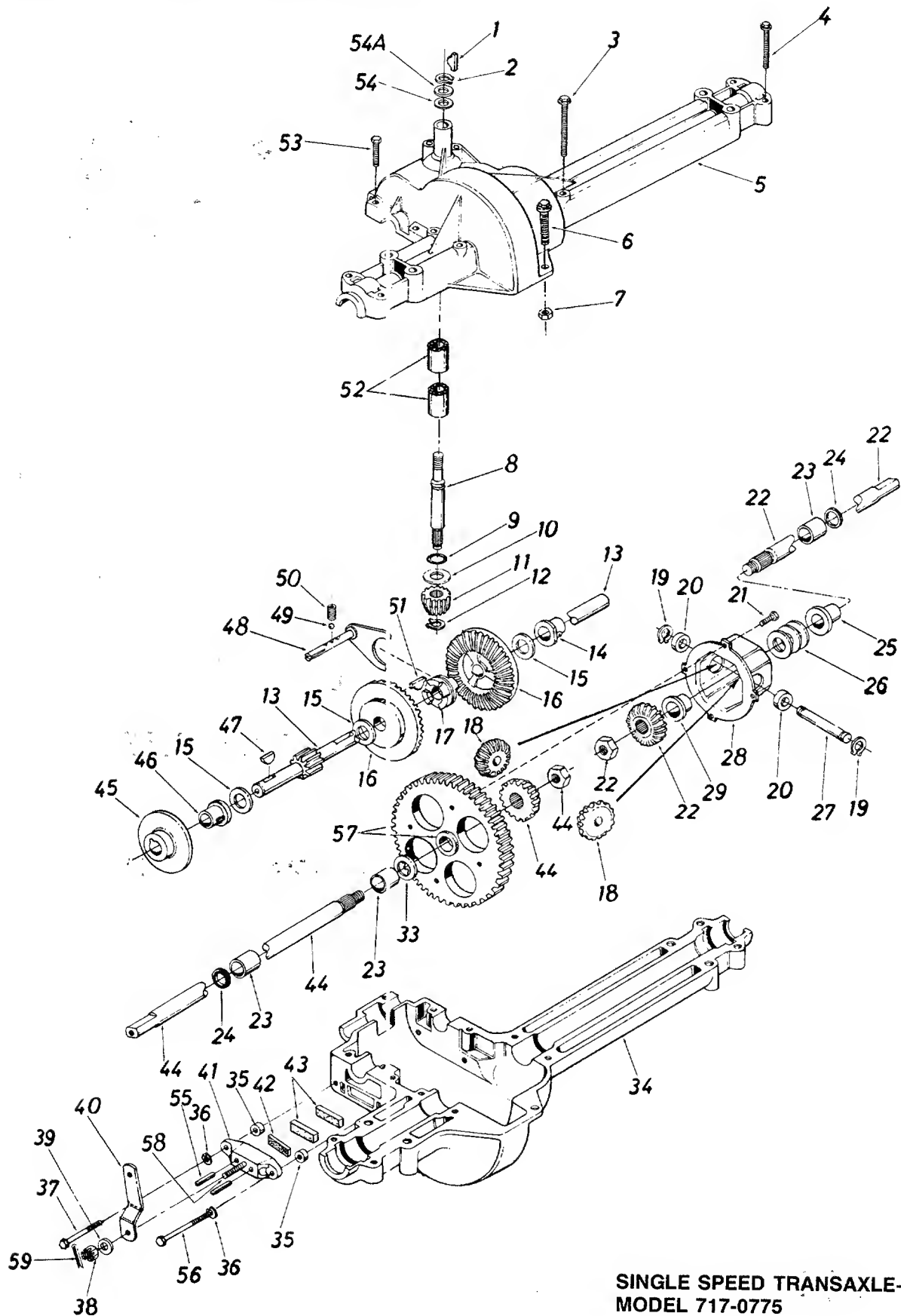
# Models 320 thru 357



PARTS LIST FOR MODELS 320 THRU 357 LAWN TRACTORS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	16607		Belt Guard Deck—L.H.		21	754-0342	0355	V-Belt 67" 3/42 is 68.24"	
2	16608		Belt Guard Deck—R.H.		23	09164		Reinforcement Plate	
3	16666		Rear Deck Brkt.—R.H.		24	09322		Brake Disc	
4	17101		32" Deck Ass'y.		27	712-0123		Hex Nut 5/16-24 Thd.*	
	17134		32" Deck Ass'y. Comp. (Service Only)		28	712-0318		Hex Jam Nut 5/8-18 Thd.	
5	710-0152		Hex Bolt 3/8-24 x 1.0" Lg.		29	736-0119		L-Wash. 5/16" I.D.	
6	710-0195		Hex Bolt 1/4-28 x .62" Lg.		30	736-0158		L-Wash. 5/8" I.D.	
7	710-1012		Rib Neck Bolt		33	750-0456		Spacer	
8	712-0123		Hex Nut 5/16-24 Thd.*		34	756-0486		5" Dia. Pulley	
9	712-0138		Hex Nut 1/4-28 Thd.*		35	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
10	712-0181		Hex L-Nut 3/8-16 Thd.		36	712-0287		Hex Nut 1/4-20 Thd.*	
12	734-0973		Deck Wheel		37	736-0329		L-Wash. 1/4" I.D.*	
13	736-0105		Bell-Wash. .380" I.D. x .88		43	17136		Chute Ass'y.	
14	736-0119		L-Wash. 5/16" I.D.*		44	17137		Chute Bracket	
15	736-0217		L-Wash. 3/8" I.D. H.D.		45	710-0255		Truss-Mach. Scr. 1/4-20 x .75" Lg.	
16	736-0270		Bell-Wash. .265" I.D. x .75		46	711-0808		Hinge Pin	
17	738-0373		Shld. Bolt .498" Dia. x 1.53 Lg.		47	712-0298		Hex Jam Nut 1/4-20 Thd.	
18	742-0477	487	L.H. High-Lift Blade		48	732-0542		Torsion Spring 1.14" Lg.	
19	742-0480	487	R.H. High-Lift Blade		49	710-0888		Hex Bolt 5/16-24 x 1.0" Lg. (Special)	
20	748-0300		Blade Adapter		50	717-0900		Blade Spindle Complete	

# Models 320 thru 357



SINGLE SPEED TRANSAXLE—L.H.  
MODEL 717-0775



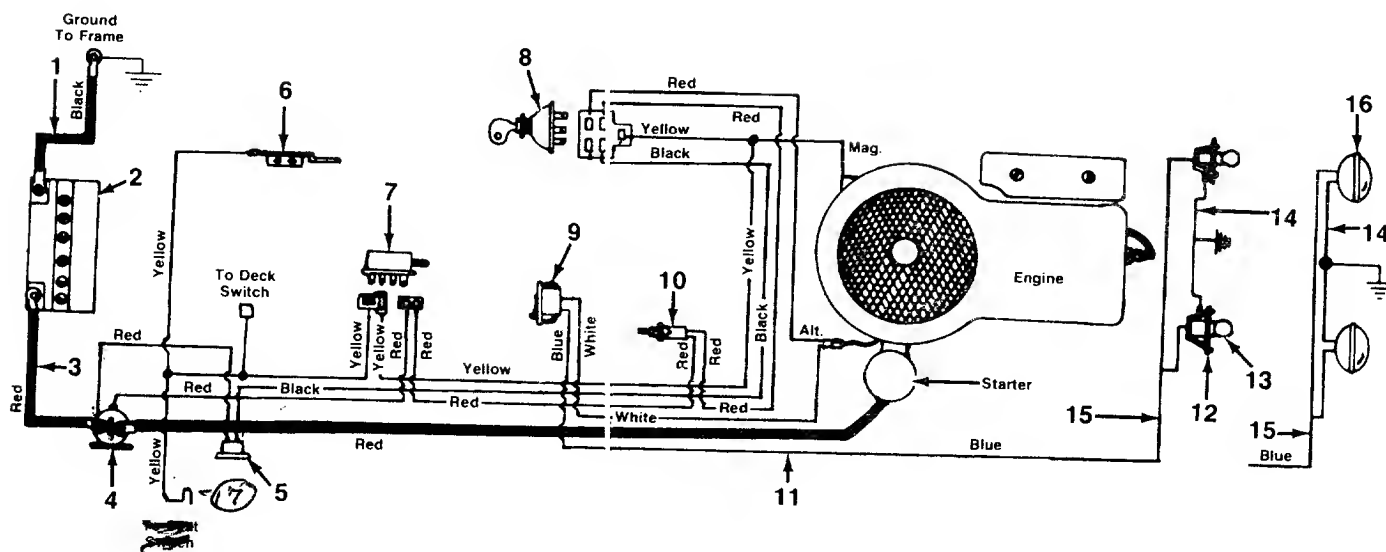
# Models 320 thru 357

## PARTS LIST FOR SINGLE SPEED TRANSAXLE LEFT HAND 717-0775

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		34	717-0761		Lower Housing	
2	716-0115		Snap Ring .625" Shaft		35	750-0555		Spacer .53" O.D. x 3/8" Lg.	
3	710-0854		Hex Bolt 1/4-20 x 1.75" Lg.*		36	736-0329		L-Wash. 1/4" I.D.*	
4	710-0378		Hex Bolt 5/16-18 x 2.5"		37	710-0886		Hex Bolt 1/4-20 x 1.50" Lg.	
5	717-0764		Upper Housing					(Grade 5)	
6	710-0889		Hex Fl-Bolt 1/4-20 x .88" Lg.*		38	712-0335		Castle Nut 5/16-24 Thd.	
7	712-0287		Hex Nut 1/4-20 Thd.*		39	736-0159		Fl-Wash. .344" I.D. x .875" O.D.	
8	717-0634		Input Shaft		40	717-0772		Actuating Arm	
9	721-0178		Square Seal 5/8" I.D.		41	717-0679		Brake Yoke	
10	736-0335		Thrust Washer 5/8" I.D. x 1.25" O.D.		42	717-0682		Puck Plate	
11	717-0633		Pinion Input 14T		43	717-0678		Brake Puck	
12	716-0108		Retaining Ring 7/16" Ext.		44	717-0765		Axle L.H. Ass'y.—Kit	
13	717-0768		Drive Shaft		45	717-0677		Brake Disc	
14	741-0336		Flange Brg. 5/8" I.D. x 3/4" Lg.*		46	741-0337		Flange Bearing 5/8" I.D. x 15/16" Lg.	
15	**		Fl-Wash. (See Below)		47	714-0161		Woodruff Key 3/16 x 5/8 HT	
16	717-0757		Bevel Gear 42T		48	717-0754		Shift Fork Ass'y.	
17	717-0667		Clutch Collar		49	741-0862		Ball Detent .250" Dia.	
18	717-1020		Miter Gear 15T (H.D.)		50	732-0863		Spring Detent	
19	716-0142		Snap Ring		51	714-0169		#9 Hi-Pro Key 3/16" x 3/4" Dia. HT	
20	717-0690		Thrust Bearing 1/2" I.D. x 1.0" O.D.		52	741-0335		Needle Brg. 5/8" I.D. x 1/2" Lg.	
21	710-0862		Pan Head Scr. 1/4-20 x .50" Lg. w/Patch		53	710-0855		Hex Bolt 1/4-20 x 1.00" Lg.	
22	717-0766		Axle R.H. Ass'y.—Kit		54	736-0336		Fl-Wash. 5/8" I.D. x .030	
23	741-0340		Sleeve Bearing 3/4" I.D. x 1.0" Lg.		54A	736-0337		Fl-Wash. 5/8" I.D. x .040	
24	721-0179		Oil Seal 3/4" I.D.		55	741-0343		Actuating Pin 5/16" Dia.	
25	741-0339		Flange Bearing 3/4" I.D. x 15/16" Lg.		56	710-0966		Hex Bolt 1/4-20 x 2.50" Lg.	
26	736-0188		Fl-Wash. .760" I.D. x 1.49" O.D.		57	717-0767		(Grade 5)	
27	717-0673		Cross Shaft		58	717-0681		Differential Gear 72T Ass'y. w/Bearing	
28	717-0777		Differential Housing Ass'y.		59	1544-013		Sq. Hd. Bolt 5/16-24 Thd.	
29	—		Part of Ref. 28					Cotter Pin 3/32" Dia. x .50" Lg.	
33	736-0188		Fl-Wash. .760" I.D. x 1.49" O.D.		—	737-0148		Grease—Shell (10 oz.)	

\*\*Ref. No. 15 736-0349 Fl-Wash. 5/8" I.D. x 1.0" O.D. x .020" Thk.  
 736-0336 Fl-Wash. 5/8" I.D. x 1.0" O.D. x .030" Thk.  
 736-0337 Fl-Wash. 5/8" I.D. x 1.0" O.D. x .040" Thk.

# Models 320 thru 357



## PARTS LIST FOR ELECTRICAL SYSTEM

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0976		Ground Wire		10	725-0577		Safety Switch (Black)	
2	725-0514		Battery		11	725-1336		Harness (B&S)	N
3	725-0926		Electric Wire			725-1337		Harness (Tecumseh)	N
4	725-0771		Solenoid		12	725-1058		Socket (Sq. Headlights)	
5	725-0459		Circuit Breaker		13	725-0963		Lamp (Sq. Headlights)	
6	725-0758		Spring Switch		14	725-0916		Ground Wire	
7	725-0803		Safety Switch		15	725-1243		Headlight Harness	
8	725-0267		Key Switch		16	725-0222		Lamp (Round Headlights)	
9	725-0634		Light Switch		17	725-1303		Seat Switch	N

# PARTS INFORMATION

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

## BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

**NOTE:** If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

<b>ALABAMA</b> Auto Electric & Carburetor Co. . . . .	<b>BIRMINGHAM</b> 2625 4th Ave. S. . . . . 35233	<b>NEW YORK</b> Gamble Dist., Inc. . . . .	<b>CARTHAGE</b> West End Ave. . . . . 13619
<b>ARKANSAS</b> Sutton's Lawn Mower Shop. . . . .	<b>NORTH LITTLE ROCK</b> 5301 Roundtop Drive Box 368, Rt. 4 . . . . . 72117	<b>NORTH CAROLINA</b> Dixie Sales Company. . . . .	<b>GREENSBORO</b> 335 N. Green . . . . . 27402
<b>CALIFORNIA</b> Billious . . . . .	<b>PORTERVILLE</b> 75 North D Street . . . . . 93257	<b>OHIO</b> Stebe's Mid-State Mower Supply	<b>CARROLL</b> Box 366, 71 High St. . . . . 43112
<b>COLORADO</b> Spitzer Industrial Products Co. . . . .	<b>DENVER</b> 6601 N. Washington St. . . . . 30229		<b>CLEVELAND</b> 7900 Lorain Ave. . . . . 44102
<b>FLORIDA</b> Radco Distributors . . . . .	<b>JACKSONVILLE</b> 4909 Victor St. Box 5459 . . . . . 32207		<b>WADSWORTH</b> 687 Seville Rd. . . . . 44281
	<b>HIALEAH</b> 7995 W. 26th Court . . . . . 33016		<b>YOUNGSTOWN</b> 1301 Logan Ave. Box 929 . . . . . 44501
<b>GEORGIA</b> East Point Cycle & Key Inc. . . . .	<b>EAST POINT</b> 2834 Church St. . . . . 30344	<b>PENNSYLVANIA</b> EECO Inc. . . . .	<b>HARRISBURG</b> 4021 N. 6th St. . . . . 17110
<b>ILLINOIS</b> Keen Edge Co. . . . .	<b>LYONS</b> 8615 Ogden Ave. . . . . 60534		<b>WILLOW GROVE</b> 850 Davisville Rd. . . . . 19090
<b>INDIANA</b> Parts & Sales Inc. . . . .	<b>ELKHART</b> 2101 Industrial Pkwy. . . . . 46516		<b>PITTSBURGH</b> 11101 Frankstown Rd. . . . . 15235
<b>IOWA</b> Power Lawn & Garden Equip. . . . .	<b>DUBUQUE</b> 2551 J.F. Kennedy. . . . . 52001		<b>PUNXSUTAWNEY</b> R.D. 2 . . . . . 15767
<b>LOUISIANA</b> Suhren Engine Co. . . . .	<b>NEW ORLEANS</b> 8330 Earhart Blvd. . . . . 70118		<b>SCRANTON</b> 1133-35 Wyoming Ave. . . . . 18509
<b>MARYLAND</b> Center Supply Co. . . . .	<b>TAKOMA PARK</b> 6867 New Hampshire Ave. . . . . 20912	<b>TENNESSEE</b> Ace Distributors . . . . .	<b>KNOXVILLE</b> 2103 Magnolia . . . . . 3791
<b>MASSACHUSETTS</b> Morton B. Collins Co. . . . .	<b>SPRINGFIELD</b> 300 Birnie Ave. . . . . 01107		<b>MEMPHIS</b> 3035-43 Bellbrook . . . . . 38116
<b>MICHIGAN</b> Power Equipment Dist. . . . .	<b>MOUNT CLEMENS</b> 340 Hubbard . . . . . 48043	<b>TEXAS</b> Marr Brothers, Inc. . . . .	<b>DALLAS</b> 423 E. Jefferson . . . . . 75203
<b>MINNESOTA</b> Hance Distributing Inc. . . . .	<b>PLYMOUTH</b> 12795 16th Ave. North . . . . . 55441		<b>SAN ANTONIO</b> 8610 Botts Lane P.O. Box 17867 . . . . . 78217
<b>MISSOURI</b> Oscar Wilson Engine & Parts . . . . .	<b>EARTH CITY</b> 4159 Shoreline Dr. . . . . 63045	<b>UTAH</b> Powered Products . . . . .	<b>SALT LAKE CITY</b> 1661 N. Beck St. . . . . 84116
	<b>KANSAS CITY</b> 3117 Holmes St. . . . . 64109	<b>VIRGINIA</b> RBI Corp. . . . .	<b>ASHLAND</b> 101 Cedar Ridge Dr. . . . . 23005
<b>NEW JERSEY</b> Piersons . . . . .	<b>ALLOWAY</b> Canal St., Box 494 . . . . . 08001	<b>WASHINGTON</b> Equip. Northwest . . . . .	<b>SEATTLE</b> 1410 14th Ave. . . . . 98122
<b>NEW MEXICO</b> Spitzer Eng. & Parts Co. . . . .	<b>ALBUQUERQUE</b> 1023 Third Ave. N.W. . . . . 87103	<b>WISCONSIN</b> Wisconsin Magneto Inc. . . . .	<b>MILWAUKEE</b> 4727 N. Teutonia St. . . . . 53209

## WARRANTY PARTS AND SERVICE POLICY

(0687)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number, Serial Number and/or Data Code of unit involved.
2. Date unit was purchased or first put into service.
3. Date of Failure.
4. Nature of Failure.